

Gaston College

TECHNICAL DIVISION

Formerly

Gaston Technical Institute



1965-66 CATALOG SUPPLEMENT



Technical-Vocational Buildings Scheduled for Completion by December 1966

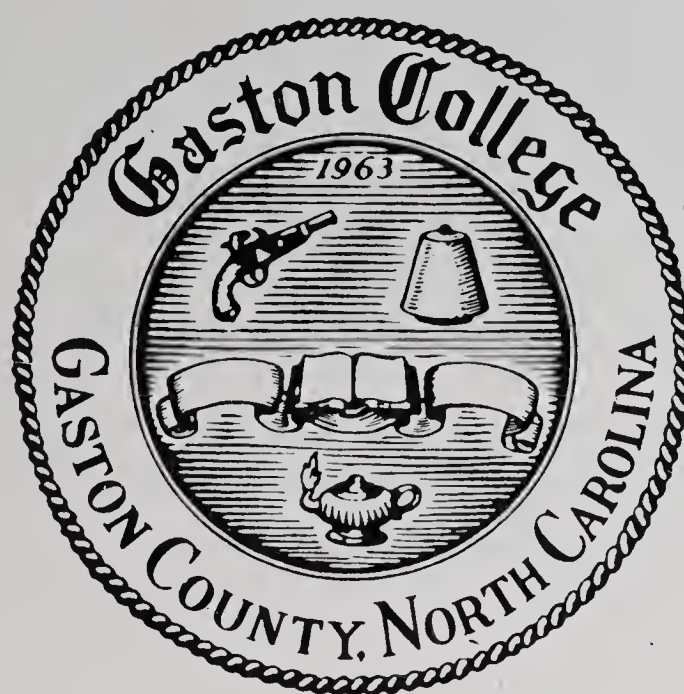
Gaston College

TECHNICAL DIVISION

(Formerly The Gaston Technical Institute)

1025 West Franklin Avenue

Gastonia, North Carolina



1965-66 CATALOG SUPPLEMENT

Mailing Address

Post Office Box 1397
Gastonia, N. C. 28052

Telephone

Area Code 704
864-5711

OFFICIAL COLLECTION

Gaston College
Dallas, N.C.

SUMMARY OF OFFERINGS

The Technical Division of Gaston College offers two-year, full-time, accredited, coeducational, terminal programs of study in Engineering Technology.

The Associate of Applied Science degree is awarded to graduates in

Civil Engineering Technology

Electrical Engineering Technology

Electronics Engineering Technology

Mechanical and Production Engineering Technology

These four engineering technician curricula are accredited by the Engineers' Council for Professional Development. Accreditation has been continuous since 1961, at which time initial accreditation was achieved for these programs of study begun in 1957 and offered by the Gaston Technical Institute.

The Gaston Technical Institute, a Division of the School of Engineering of North Carolina State University, was merged on July 1, 1965 with the Gastonia Industrial Education Center and with Gaston College, a liberal arts junior college, to form a comprehensive community college in the new North Carolina State System of Community Colleges established in 1963 by the General Assembly.

Gaston College, the new institution, offers a variety of programs of study, including college transfer programs in the liberal arts, terminal programs in business education and in engineering technology, vocational and trade programs, adult education programs, and numerous extension programs.

Two additional new curricula in engineering technology (Chemical Engineering Technology and Industrial Engineering Technology) are scheduled to be offered by the Technical Division of Gaston College for the Fall Quarter beginning in September 1966.

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GASTON COLLEGE
BOARD OF TRUSTEES

Ray P. Craig Chairman
J. Edward Stowe Vice-Chairman
H. S. Mackie Secretary
R. P. Caldwell Treasurer

APPOINTED BY GASTON COUNTY BOARD OF
EDUCATION Term Expires

D. R. Mauney, Jr., 500 Old Post Rd., Cherryville, N.C. 6-30-69
Ray P. Craig, P O. Box 308, Stanley, N. C..... 6-30-69

APPOINTED BY GASTONIA BOARD OF EDUCATION

J. Edward Stowe, 409 Thomas Trail, Gastonia, N. C. . . 6-30-69
H. S. Mackie, 403 W. Fifth Ave., Gastonia, N. C. . . . 6-30-69

APPOINTED BY GASTON COUNTY COMMISSIONERS

Gene Froneberger, Gold St., Bessemer City, N. C. . . . 6-30-67
R. P. Caldwell, 1208 E. Franklin Ave., Gastonia, N. C. 6-30-67

APPOINTED BY GASTONIA CITY COUNCIL

Robert M. Howard 407 S. Hanna St., Gastonia, N. C. . . 6-30-67
Leon I. Schneider, 1030 S. Belvedere, Gastonia, N. C... 6-30-67

APPOINTED BY GOVERNOR OF NORTH CAROLINA

J. Bart Hall, McAdenville Rd., Belmont, N. C. 6-30-69
James H. Atkins, 1114 Scotch Dr., Gastonia, N. C. . . . 6-30-67
Earl T. Groves, 1106 Fairfield Dr., Gastonia, N. C. . . 6-30-71
Albert G. Myers, Jr., 2605 Armstrong Circle 6-30-71

OFFICERS OF ADMINISTRATION

Dr. C. Robert Benson	President
W. Robert Halstead	Vice-President and Dean of Technical Education
Dr. Thomas Cottingham	Dean of Instruction
Dr. John E. Roueche, Jr.	Assistant to the President, Dean of Institutional Studies and Academic Affairs
Harry E. Varney	Assistant to the President and Dean of Business Affairs
David Sims	Dean of Student Personnel
George McSwain	Dean of the Evening School
Michael E. Latta	Assistant to the Dean of Evening School and Director of Extension
J. Bruce Trammell	Registrar and Director of Admissions
Jimmie W. Babb	Director of Adult Education
John M. Jenkins	Director of Vocational Education

GASTON COLLEGE STAFF

Norma Alexander	Secretary to Technical Division
Helen Babington	Secretary to Adult Education Division
Jane Baxter	Secretary to Cleveland County Unit
Dr. Frank B. Cain	College Physician
T. B. Carpenter	Manager of Dining Room, Technical Division
Linda Cloniger	Bookkeeper
Sara Froneberger	Secretary to the Librarian
Pat Garrison	Secretary to Assistant to the President
Harley Gaston, Jr.	Legal Counsel
Edward A. Jackson	Maintenance Supervisor
Estelle Lane	Dining Room Cashier, Technical Division
Carolyn Mathis	Switchboard Operator
Mary McQuere	Secretary to the Vice President
Jeanelle Schultz	Bookkeeper
Charles Setzer	Bookstore Manager
Joyce Shelton	Secretary to the President
Patricia Steagall	Secretary to Assistant to the President
Lucille F. Taylor	Assistant to the Registrar
Ruth Weaver	Secretary to the Technical Division
Dorothy Woody	Bookkeeper

FACULTY

Armstrong, Jasper Leonard, Jr. Electrical Engineering
B.S.E.E., North Carolina State University.

Babb, Jimmie W. Director of Adult Education
A.B., Lenoir Rhyne College; M.A., Appalachian State
Teachers College; Additional Graduate Work, North
Carolina State University, University of North Carolina.

Ball, Roland Robert Drawing
B.S., Berry College

Benson, C. Robert, Jr. Psychology
A.B., Catawba College; M.A., PhD., University of North
Carolina.

Carpenter, Rebecca Wells Librarian
A.B., Salem College; M.A., Florida State University; Ad-
ditional Graduate Work, University of North Carolina,
University of Miami.

Cline, Henry Carrol Physics
B.S., M.A., Appalachian State Teachers College

Cline, Horace L. Director of Adult Basic Education
B.S., East Carolina; M.A., Appalachian State Teachers
College.

Cottingham, Thomas Psychology
A.B., Duke; M.A., Emory University; PhD., Florida State
University.

Crawford, Richard Neel Engineering Drawing
A.A.S., Gaston Technical Institute.

DuBose, Margaret E. Assistant Librarian
A.B., University of North Carolina at Greensboro; B.S.,
University of North Carolina at Chapel Hill.

Ethridge, William Alvin Mathematics & Physics
B.S., Atlantic Christian College.

Fuhrer, Raymond A. Electrical Engineering
B.S.E.E., University of Pittsburg.

Griffin, Grady Morris Machine Shop
Gaston Technical Institute, Burton Institute

- Hagen, Milton Martin Guidance & Psychology
B.S., University of North Dakota; M.S., Indiana University; Additional Graduate Work, North Carolina State University.
- Halstead, W. Robert Electrical Engineering
B.E.E., Georgia Institute of Technology; P.E., Georgia.
- Heywood, Carl Winslow Physics
B.S., United States Naval Academy; M.P.A., Harvard University; Additional Graduate Work George Washington University.
- Heywood, Carolina P. Director of Learning Lab
B.A., Furman University; M.A., The American University; Additional Graduate Work, Appalachian State Teachers College, University of North Carolina.
- Horton, Benjamin Carl Electronics Engineering
B.S., University of Kansas City; M.Ed., Penn State University.
- Jenkins, John Mack Industrial Arts
B.S., M.I.A., North Carolina State University.
- Keck, Russell A., Jr. Industrial Engineering
B.S.I.E., Virginia Polytechnical Institute.
- Leong, Vincent Weng Seng Mathematics
B.A., High Point College; M.A., Appalachian State Teachers College.
- Lunsford, Paul Cecil Mathematics & Physics
B.S., M.A., Appalachian State Teachers College.
- McArver, Eleanor Moore English
B.S., Madison College; Graduate Work, William & Mary, North Carolina State University, Appalachian State Teachers College.
- McAteer, Porter Lee Industrial Engineering
B.S.I.E., North Carolina State University.
- McDaniel, John Henry English
A.B., Wittenberg University; Graduate Work, Appalachian State Teachers College.
- Medford, Ray L. Drawing
B.S., Western Carolina.
- Michael, Robert Milton Mechanical Engineering
B.M.E., North Carolina State University.

- Robinson, Clyde Hoffman Civil Engineering
B.G.E., North Carolina State University; Graduate Work,
Buchnell University, Clemson College, West Virginia
University; P.E., North Carolina, South Carolina.
- Roueche, John Edward, Jr. Social Studies
A.B., Lenoir Rhyne College; M.A., Appalachian State
Teachers College; PhD., Florida State University.
- Royall, Hardin Joseph Industrial Arts
B.S., M.A., Appalachian State Teachers College.
- Russell, Donald Keith .. Electronics Engineering Technology
A.A.S., Gaston College.
- Sanders, Mary Clare English
A.B., University of North Carolina at Greensboro.
- Shuford, Charlotte English
B.A., Duke University; M.A., Vanderbilt University.
- Sims, David Psychology
A.B., Duke University; M.A., PhD., Florida State Uni-
versity.
- Snyder, Joseph F. Guidance and Psychology
B.A., Nebraska Wesleyan University; M.A., Northwest-
ern University; Additional Graduate Work, New York
University, University of Maryland.
- Stewart, Jacob Lee Mathematics & Physics
B.S., Western Carolina; M.S., University of Mississippi.
- Trammell, J. Bruce Business Education
B.S., M.A., Appalachian State Teachers College.
- Vance, John David Civil Engineering
B.C.E., North Carolina State University; P.E., North Car-
olina.
- Varney, Harry E. Hygiene & Physical Education
A.B., M.A., University of North Carolina; Additional
Graduate Work, Western Carolina, Appalachian State
Teachers College.
- White, Claud Edwin Mathematics & Physics
B.S., North Carolina State University.
- White, Wade Durham .. Electronics Engineering Technology
The Citadel.
- Willis, Robert Lee Mechanical Engineering
B.M.E., North Carolina State University.



In Memorium

COUNCIL CLAUDIUS DAWSON

October 4, 1965

HISTORY OF GASTON COLLEGE

The idea of a college for the Gaston County community has long been a dream of forward-thinking citizens of the county. As early as the 1940's the Gaston County Board of Education voiced the need; in the late fifties the local newspaper, the Gastonia Gazette, began a tireless crusade for the establishment of a college in this area. However, interest in the college did not begin to take tangible form until the early sixties, as an increasing number of the county's promising high school graduates found that soaring costs of higher education made it prohibitive. It had become impossible for them to go away to school, and the closest public institution of higher learning to which they might commute was from twenty to thirty miles from their homes. The idea of a college which would meet the needs of these young people became a frequent topic of conversation among business and educational leaders in the county; and the local newspaper promoted a continuing interest through its editorial prodding and by listing at the head of its editorial page each day for several successive years a list of urgent and immediate goals for this community, foremost among which was the establishment of a community college in Gaston County.

The Gastonia Chamber of Commerce accepted the challenge, and in April, 1960, took the first significant step toward making the college a reality by sending a committee to attend ground-breaking exercises at Wilmington College, in the eastern part of the state. The following year, the Gaston County Board of Education took the next major step when it began consultations with the N. C. State Board of Higher Education. A dinner meeting, sponsored jointly by the Gastonia Chamber of Commerce and the Gaston County Board of Commissioners, and to which forty area citizens had been invited, provided further impetus to the idea. Dr. William C. Friday, President of the University of North Carolina, and himself a Gaston County native, gave an inspired address to this group and presented the case for a community college in Gaston County.

This meeting led to the appointment in October, 1961, of a committee of 15 to look further into the need for a community college in Gaston County. Ray P. Craig was chosen as

chairman, and three sub-committees were appointed and charged with the responsibility to investigate the needs and possibilities of a community college for Gaston County.

A month later the committee of 15 met and heard reports from its three sub-committees urging a continuation of efforts to secure a community college. Thereupon, plans were made for another dinner meeting, this to be held at Charlotte College, a neighboring public institution 20 miles away, on invitation from Dr. Bonnie Cone, President of Charlotte College. At this meeting the final revised committee report was approved by a majority of the commission of 40 citizens who had attended the first planning meeting.

During the next few months members of the smaller study committee and the Chamber of Commerce appeared before almost every civic, religious, and educational organization in the county and discussed the need for a community college. Interest soared, as real progress could be seen. In April, 1962, the Gaston County Board of Education and the Gaston County Commissioners secured an option to purchase land on U.S. Highway 321, between Gastonia, the county seat, and Dallas, a few miles to the north, a location close to the geographic center of the county. Tentative approval to establish the college was then secured by the County Board of Education from the North Carolina Board of Higher Education, and in June of 1962 the Advisory Budget Committee of North Carolina approved the plans for a community college in Gaston County, which institution was thereafter referred to as Gaston College. The citizens of the county rallied to the cause and voted 2 to 1 for a tax levy for the college; whereupon, the state of North Carolina issued a charter to Gaston College on January 10, 1963.

The first Board of Trustees of Gaston College was chosen by official groups which had worked hard to secure a college for Gaston County. This Board was composed of: H. S. Mackie, J. Edward Stowe, Eugene Froneberger, R. P. Caldwell, Robert M. Howard, Leon I. Schneider, D. R. Mauney, Jr., Ray P. Craig, J. Bart Hall, David F. Mason, Earl M. Price, and James H. Atkins.

By April, 1963, committees of the Board had been named and were hard at work; a bond election for capital outlay funds had been tentatively set for September, 1963; and Dr.

Robert Benson, then President of College of the Albemarle, had been named the first President of Gaston College.

Dr. Benson came to Gastonia in July, 1963, and immediately began an intensive speaking program to educate the citizens of this area regarding the nature of a community college and the advantages such an institution would have to offer the community. Under his adroit and enthusiastic guidance, the College quickly took form as he began to recruit staff, faculty, and students for the college. Building plans were approved and bids were accepted January 8, 1964, for constructing the \$862,000 plant. The following month, on February 3, 1964, a ground-breaking ceremony was carried out at the college site. Although the new plant was not completed for occupancy until Thanksgiving, the first classes of Gaston College began September 28, 1964, in the Educational Building of the First Methodist Church in Gastonia, with an enrollment of 696 students, a faculty of 23, and an administrative staff of 5.

Scarcely had the new college opened its doors when consultations were begun for the merger of two local educational institutions with Gaston College. Gaston Technical Institute, with an enrollment nearing 400 and which had for more than 10 years been a division of the School of Engineering of North Carolina State University at Raleigh, and Gastonia Industrial Education Center, previously maintained by the Department of Community Colleges, were formally proclaimed a part of Gaston College on July 1, 1965. With this merger, Gaston College became one of the pioneer institutions in this section of the country serving as a comprehensive community college with programs ranging from basic adult education and occupational skills classes to vocational and technical courses in a variety of areas and the traditional college parallel curriculum. Pending the construction of new facilities on the permanent Gaston College campus during the 1965-66 school year, the Technical Division and Industrial Education branch continued to operate on the campus of the former on West Franklin Avenue.

Gaston College opened its second year in September of 1965 with a record enrollment of 1,088 in college parallel courses, 377 in the Technical Division, 130 in vocational and 1,199 in special education.

THE ENGINEERING TECHNICIAN

The United States is a nation of producers. The production of goods involves the conversion of raw materials into finished products, the distribution and marketing of these products, and the continuous development of new and better products.

The processes of production have been developed so rapidly and so extensively that the present state of the art requires an increasingly higher level of education, proficiency, and achievement from scientists, engineers, and supporting personnel.

The educational preparation of the engineer in recent years has been reoriented toward an emphasis on the abstract and theoretical science of engineering with a corresponding de-emphasis on the art or application of engineering science.

This reorientation of engineering education has focused new attention on the role of supporting technical personnel. The education, training, and utilization of all members of the engineering manpower team have been restudied and redirected toward a clearer delineation of functions and levels of performance.

These concepts of functions and levels of performance are made necessary by the great diversity of educational programs needed. Each level of performance requires a corresponding level of education. The various levels of the engineering manpower team are represented by the following general classifications:

Engineer -----
Engineering Technician -----
Technical Specialist or Industrial Technician -----
Skilled Craftsman -----
Semi-skilled Machine Operator -----

These classifications indicate different categories of industrial employment and correspondingly different levels of required educational preparation. The relative amounts of manipulative skills (know-how) and mental skills (know-why) required by the different categories vary considerably from almost 100% know-how and very little know-why for the semi-skilled machine operator, to very little know-how and almost 100% know-why for the engineer.

The engineering technician refers to that category of supporting personnel which is most closely associated with and related to the profession of engineering, both in employment and in education. The engineering technician, sometimes referred to as an engineering associate or engineering aide, requires a significant amount of manipulative skills (know-how) but is primarily concerned with the application of mental skills (know-why) for which the best preparation is collegiate-level instruction in mathematics, the physical sciences, communications, appropriate technical skills, and appropriate technical specialties.

The Gaston Technical Institute (now the Technical Division of Gaston College) has been in the forefront of those institutions concerned with the development of accredited engineering technology programs of study for engineering technicians at the two-year technical junior college level.



HISTORY OF GASTON TECHNICAL INSTITUTE

In 1952 upon the initiative of Brice Dickson, at that time Executive Vice-President of the Gastonia Chamber of Commerce, the Gaston Technical Institute was established at 410 West Airline Avenue in Gastonia, N. C., as a Division of the College Extension Division of North Carolina State College (now the Division of Continuing Education of North Carolina State University). The establishment of this new educational institution was facilitated by the contribution of approximately \$50,000 from the industrial textile community of Gaston County. C. Claudius Dawson served as Chairman of the local Board of Trustees.

In 1957 the Institute became a Division of the School of Engineering of North Carolina State insofar as academic affairs were concerned. Administration of the Institute continued to be the responsibility of the College Extension Division. The Board of Trustees became a Citizens Advisory Board and continued under the able chairmanship of Mr. Dawson.

In September 1957 four two-year technical institute programs of study were offered on the semester basis with an initial enrollment of sixty-four full-time day students in Civil Technology, Electrical Technology, Electronics Tech-

nology, and Mechanical & Production Technology. The curricula were patterned after the recommendations of the American Society for Engineering Education and of the Engineers' Council for Professional Development.

During the Summer of 1958, W. Robert Halstead became Director of the Institute. All of the operations of the Institute were moved from the location on Airline Avenue to new facilities at 1025 West Franklin Avenue in Gastonia. Through the efforts of Harold H. Mercer, General Manager of Firestone Textiles the land and three buildings at this new location were donated by Firestone Textiles. After an extensive architectural renovation at a cost of approximately \$200,000, the new facilities were dedicated on November 7, 1958.

In 1959 authority was granted for the awarding of the Associate of Applied Science degree in each of the four technologies. Thirty-nine graduates received degrees at the first annual commencement exercises on May 28, 1959.

In 1961 the four engineering technology curricula were accredited by the Engineers' Council for Professional Development.

In 1963 the designations for the curricula were changed to Civil Engineering Technology, Electrical Engineering Technology, Electronics Engineering Technology, and Mechanical and Production Engineering Technology. All four curricula were revised and redesigned for a quarter system calendar to begin with the Fall Quarter in September 1963. The graduates at the sixth annual commencement exercises on June 1, 1964, were thus the first to receive degrees carrying the engineering technology designation.

The conversion to the quarter system from the semester system made possible the offering of a full regular schedule of courses during the summer months so that students wishing to do so might continue straight through for earlier graduation.

The placement of the approximately five hundred graduates to date has been extremely successful with the graduates being satisfactorily placed in employment opportunities especially designed for Engineering Associate or Engineering Technician. The reputation of the Institute and of its programs of study derives primarily from the approximately three hundred industrial and business concerns employing these graduates and from the graduates themselves.

With the merger of the Gaston Technical Institute and Gaston College on July 1, 1965, the engineering technology curricula offered by Gaston Tech continued without interruption as offerings of the Technical Division of Gaston College. The student body, faculty, and the accreditation of the programs of study continued unchanged. The objective of the Gaston Technical Institute, to offer a quality educational program for engineering technicians, continues as one of the prime objectives of Gaston College.

GENERAL INFORMATION

INSTITUTIONAL MEMBERSHIP

Gaston College is an institutional member of the American Association of Junior Colleges, a candidate for admission to the North Carolina College Conference, and a candidate for admission to the Southern Association of Schools and Colleges.

Credits earned at Gaston College in college-parallel courses are transferable to senior colleges and universities.

LOCATION

Gaston College is located approximately three miles north of Gastonia just outside Dallas, North Carolina, on Highway 321. The mailing address is Post Office Box 1397, Gastonia, North Carolina or Gaston College, Dallas, North Carolina.

FACILITIES

There are on the permanent campus 19 classrooms, 5 science laboratories, a learning laboratory, a language laboratory, art studios, a completely furnished library, administrative offices, student and faculty lounge areas, a snack bar, and a bookstore.

The one million dollar inter-connected technical and vocational buildings under construction, vastly increasing classroom, laboratory, and administrative space will be occupied during the 1966-67 school year.

LIBRARY

Gaston College has a basic collection of approximately 20,000 volumes. A carefully selected group of over 200 periodicals is received regularly. In addition to the general circulating collections, the library supplements classroom instruction with reserve collections in each subject field especially selected and kept up to date. Reference and research materials are available on the under-graduate level.

By means of inter-library loan services the library will make available books and reprints, and articles and periodicals from other libraries.

ADMISSION INFORMATION

STATEMENT OF POLICY

Gaston College has been established to serve the community by providing college-level courses for all who are able to profit by post-high school education.

BEGINNING STUDENTS

Admission to credit courses is open to high school graduates or those who possess a high school equivalency certificate (or diploma) issued by the North Carolina State Department of Education or by the Department of Education of any one of the United States. The College reserves the right to refuse admission to a student if it appears that such action is in the best interest of the College and/or the student.

Adults who have not completed high school and who do not possess a high school equivalency certificate may be admitted on a special trial basis, earning admittance as a regular college student and receiving full college credit by maintaining a "C" (2.0) average, or higher, for the first 12 hours of degree-level courses attempted.

TRANSFER STUDENTS

Transfer students are admitted from other colleges and universities. However, the Review Committee will consider individually applications from students whose status with the institution last attended is other than "good standing" or whose cumulative grade average is below "C". If such a student is admitted, he will enter on probation.

Gaston College normally does not accept for credit a grade of "D" earned by a student at another institution.

VETERANS

New students eligible to enter with veterans benefits should apply to the Veterans Administrations for certificates or supplemental certificates of entitlement. This should be done some weeks in advance in order to have the certificates ready for registration. Veterans transferring from other colleges or universities should make their applications before leaving their former schools.

STEPS IN ADMISSION PROCEDURES

At the time of his first application for admission to Gaston College, each prospective student should submit an application form (secured from the Office of the Director of Admissions) properly executed and accompanied by a \$10.00 application fee. This fee will be applied toward the tuition for the first quarter of attendance. It is refundable only in case the student is not accepted by the College. The application fee is not required for subsequent applications.

Students who have never before attended a college should request their high school registrar to forward a tran-

script of their work to the Gaston College Admissions Office.

College transfer students should request official transcripts of all work attempted from each of the colleges or universities previously attended. Such transcripts must be sent directly to the Gaston College Admissions Office.

Any student who submits false information with regard to his application for admission is subject to immediate expulsion and loss of all credits.

PHYSICAL EXAMINATION FOR ADMISSION

Each full-time student is required to have a physical examination prior to registration.

APPLICATION FOR RE-ADMISSION

Currently enrolled students who plan to continue for the next quarter will be given priority for admission. A previously enrolled student who has been out of college for part or all of the previous quarter must re-apply for admission, fill out the appropriate application form, and pay the \$2.00 registration fee.

APPEALS COMMITTEE

The Faculty Review Committee considers appeals of students who are denied admission under regular college policy or who have been suspended from Gaston College in an earlier quarter for academic deficiencies.

GUIDANCE TEST BATTERY

Each full-time student entering Gaston College is required to take the Guidance Test Battery. The battery of tests assess educational development, scholastic and technical aptitudes, and mental ability. The results of these tests do not affect eligibility for admission, but they do play an important part in academic placement. They are also of value to the student in assessing his strengths and weaknesses regarding vocational goals.

Notification of the time and place to report for the Guidance Test Battery will be mailed each applicant by the office of the Dean of Student Personnel.

ADMISSIONS ADVISEMENT

Guidance Counselors are available to discuss with prospective applicants the various programs and courses offered by Gaston College. However, it is to the advantage of the prospective student to defer conferences with admission advisors until after his transcripts have been received at the College and he has taken the College Guidance Test Battery. After the applicant's tests have been scored and analyzed, he will be mailed an appointment to confer with a guidance counselor. Applicants unable to keep that appointment should notify the office of the Dean of Student Personnel and arrange another appointment.

ACADEMIC REGULATIONS

COURSE LOAD

A student who carries a 12 quarter-hour load is considered a full-time student. The normal load is 18 to 19 hours. No student may carry in excess of 20 hours except with the permission of the Dean of Technical Education.

Students who work more than 15 hours per week should reduce their class load accordingly. The beginning student who has full-time employment is urged to limit his class load to 9 quarter hours until he has demonstrated his ability to carry a heavier load.

SCHEDULE CHANGES

At the opening of every quarter there is a scheduled period for students to drop and add courses. The time limit for such changes appears in the CALENDAR OF EVENTS published on pages 40-41 of this catalog. Such course changes require the permission of the Program Advisor and the Dean of Technical Education.

CLASS ATTENDANCE

The following policies on attendance have been adopted by the administration and faculty of this college.

A student who during a quarter incurs in any class one unexcused absence in excess of the number of times a class meets per week will be declared dropped from the course.

Absences may be excused when caused by personal illness validated by a physician's written statement, death in the immediate family, or participation in approved college activities.

It is the responsibility of the student to obtain a signed excuse from the Dean of Technical Education and to present it to his course instructor within one week after the student returns to class. Failure to follow outlined procedure will result in an unexcused absence.

A student who during a quarter incurs in any class one absence, excused or unexcused, in excess of twice the number of times a class meets per week will be referred by the course instructor to the Dean of Technical Education. If in the opinion of the Dean it is to the best interest of the student and the college that the student be dropped from the course, the student will be required to appear before the committee on excessive absences.

GRADING SYSTEM

Each student will receive at mid-term an indication of his progress in each course. A "Satisfactory" will mean that he is doing "C" or better work. An "Unsatisfactory" will indicate "D" work. "Failing" is self-explanatory. These reports are for his information only and are not placed in his permanent file or recorded on his transcript.

At the end of each term the student will receive final grades based on the following system:

Grade	Significance	Quality Points
A	Superior	4 per qtr. hr.
B	Good	3 per qtr. hr.
C	Average	2 per qtr. hr.
D	Poor but Passing	1 per qtr. hr.
F	Failure	0
I	Incomplete	0
W	Withdrawal	0

Quality points, the numerical equivalents of the letter grade, are used to determine the student's rank in class and academic honors. A quality point average of 1.75 or better is necessary to meet grade requirements for graduation.

INCOMPLETES, FAILURES, AND WITHDRAWALS

An Incomplete (I) is given only when unusual circumstances, such as illness, prevents a student from completing all the requirements of a course by the end of the regular term. An incomplete must be removed within the quarter following the one in which given. If not removed within this time it becomes a Failure (F).

A Withdrawal (W) for a course is given only under two circumstances.

- (1) The student withdraws from a course before the published "last date to drop without penalty." In this case the student should secure the permission of his program advisor and the Dean of Technical Education.
- (2) Between the "last date to drop without penalty" and the beginning of the last school month (20 days) of a regular term a student may withdraw from a course with a "W" if the instructor certifies that the student is doing passing work at the time of withdrawal. During this period the student should begin the withdrawal process with his advisor, but he must also consult with the instructor concerned before seeing the Dean of Technical Education.

No withdrawals are permitted during the last school month.

A student who withdraws from a class, or classes, without following the prescribed procedure will be given an "F" in the course or courses concerned.

Any grade, "F" or otherwise, once earned becomes part of the student's record and can never be removed. However, if the student repeats a course and makes a higher grade, the latter also becomes a part of his record and will also appear on his transcript.

AUDITING COURSES

Students who wish to audit courses must register through the College Office. Auditors receive no credit and are not required to attend classes, participate in class discussion, or take tests and exams. The fees are the same as for regular college credit.

DEAN'S LIST

In order to honor outstanding students, the Dean's List will be published after each regular term. In order to qualify for the Dean's List, a student must take a minimum work load of 4 subjects (at least 12 quarter hours of work) and maintain at least a "B" (3.0) average with no grade lower than a "C".

PROBATION AND SUSPENSION

In order for a student to remain in good standing, he must achieve a quality point average of at least 1.75. Any student who falls below 1.75 will be placed on probation and remain so until he achieves a cumulative average of 1.75 or better. A probationary student who, in two consecutive quarters, fails to achieve a term average of 1.75 will be suspended from the college.

Any student who, in a given term, earns an average of less than 1.75 but more than 1.0 will be required to reduce his load to 12 credit hours, exclusive of Physical Education, for the following term.

Normally a student who, in a given term, earns less than a 1.0 average will be required to take remedial courses in English or mathematics plus no more than nine credit hours, exclusive of Physical Education, in the ensuing term. If, however, his unsatisfactory average is the result of indifference and is not related to reading or mathematical deficiency, he will be placed on immediate academic suspension.

Even though on academic suspension, a student is eligible to attend a summer session. If he does so, carries a 6-hour load, and earns a 1.75 or better average during that session, he will be permitted to register for the fall term, continuing on probation. Otherwise, a student suspended for academic reasons is not eligible for reinstatement until after the passage of one regular quarter. Even then his re-admission is contingent upon the approval of the Academic Affairs Review Committee, to which his request for reinstatement should be directed.

Transfer students with less than a 2.0 quality point average may be accepted by the college but will be placed on immediate probation and will be subject to the above probation and suspension policies.

DISMISSAL

The College reserves the right to suspend or dismiss any student when it believes such action is in the best interest of the College or the student. This may be done by the Administrative Committee of the Faculty in executive session.

GRADUATION REQUIREMENTS

A minimum of 108 quarter hours of work with at least a 1.75 average and the satisfactory completion of an approved Program of Study is required for graduation and the awarding of the degree of Associate of Applied Science.

COMMENCEMENT MARSHALS

The rising sophomores who have maintained the highest scholastic averages during their freshman year are honored by being named Commencement Marshals. The marshal who has the best academic record is designated Chief Marshal.



GRADUATION

FINANCIAL INFORMATION

(All fees are subject to change without prior notice.)

REGISTRATION FEES

An annual registration fee of \$2.00 will be charged for each full-time and part-time student when he first enrolls. Upon his continued enrollment this fee will be charged at the student's first registration following July 1st of each year. It will not be charged again during the year except for students who drop out of school during a quarter and then re-enroll the next term or later. Any student registering later than the time appointed for registration must pay an additional fee of \$5.00.

The registration fee is not refundable. Exceptions to the registration fee may be made in certain special, short, non-credit seminars.

TUITION

Tuition fees for full-time quarter students (12 quarter hours or more) is \$30.00 per quarter. For part-time students the charge is \$2.50 per quarter hour of credit.

STUDENT ACTIVITY FEE

The Student Activity Fee for each full-time student is \$10.00 per quarter, not to exceed \$20.00 per academic year. Part-time students may elect to pay the Student Activity Fee and enjoy its benefits.

OUT-OF-STATE STUDENTS

The out-of-state tuition rate is two and one-half times the rate for North Carolina students.

To be exempt from a payment of the out-of-state fee:

1. The parents or guardian of a student must be residents of North Carolina at the time of his registration, or
2. The student must have established residence in the State at least six months before he entered the College.

A resident student is recognized as one who actually lives in North Carolina and not one who has merely moved into the State for the purpose of securing an education from one of the State Institutions.

REFUND POLICIES

A student on the quarter system shall not be allowed a tuition refund unless the student is compelled to withdraw for unavoidable reasons. In such cases, \$20.00 may be refunded if the student withdraws within twenty days (the first month of the quarter) after the beginning of the term.

Refunds for part-time and extension courses are not allowed.

TRANSCRIPT OF RECORDS

Upon request of the student, academic credit earned at Gaston College will be transferred to any college or university.

Each student is entitled to one official transcript of his work, provided all accounts with the College have been settled satisfactorily. A student requesting an additional transcript should enclose one dollar for this service.

FINANCIAL AID

SCHOLARSHIPS

Scholarships are awarded in limited numbers to students whose academic record demonstrates above average ability and whose family or personal circumstances make financial assistance desirable.

Applicants for scholarships through the College must first be officially admitted to the College before any action upon scholarship requests can be taken. Applications for scholarships should be submitted to the office of the Dean of Student Personnel.

Two scholarships are awarded each year to entering students taking Electronics Engineering Technology. These scholarships are provided by the Jefferson Standard Foundation for graduates of high schools in either North Carolina or South Carolina. Applications must be received prior to February 15 for enrollment in either the following Summer or Fall Quarter.

VOCATIONAL REHABILITATION AID

By act of Congress, any physically handicapped student may be eligible for scholarship assistance under the provisions of Public Law 565. Applications for this scholarship aid should be processed through the District Vocational Rehabilitation Office, Room 206, 517 Insurance Lane, Charlotte, North Carolina, or through the District Vocational Rehabilitation Office nearest the applicant. Inquiries may be directed to the Rehabilitation Office or to the Director of Student Personnel at Gaston College.

STUDENT EMPLOYMENT AND PLACEMENT

Students are assisted in securing part-time or full-time employment both on and off campus during their enrollment. The College also maintains a Placement Service for its graduates. Applications should be made in person at the office of the Dean of Student Personnel.

STUDENT LOANS

Loans are available to needy students. All applications for loans should be submitted to the office of the Dean of Student Personnel.

STUDENT ACTIVITIES AND STUDENT SERVICES

GUIDANCE AND COUNSELING

Gaston College emphasizes its Guidance and Counseling program. Following the administration of the Guidance Test Battery, each student will be given an appointment with a member of the counseling staff. At this time the counselor will review the student's past academic record and the results of the Guidance Test Battery. The student will also be given information on the curricula available and his qualifications for pursuing the required subjects in his curriculum choice. If necessary, developmental courses are provided in reading improvement, English and mathematics.

FRESHMAN ORIENTATION

Each fall a Freshman Orientation Program serves to introduce the student to the collegiate environment. Orientation informs the student concerning the academic and social policies of the College and acquaints him with the library and other facilities. Throughout the orientation period, a group of upper classmen will be available to make the incoming freshmen feel at home and to answer any questions they may have about the College policies or procedures.

STUDENT GOVERNMENT ASSOCIATION

Students receive practical experience in responsible citizenship through participation in a program of self-government. The Gaston College Student Government Association consists of all full-time students who are registered at the College. Part-time students who elect to pay the student activity fee may also be members of the Association. Officers are chosen each year and each class is represented in the Student Government Association. The purpose of the Association is to regulate all matters of the student community which do not fall under the immediate jurisdiction of the administration and faculty.

STUDENT PUBLICATIONS

A newspaper published by and for the students is issued at regular intervals. The students will also prepare and publish a regular college annual. Students who are interested in any aspect of such publications activities are invited to participate.

SCHOLASTIC ORGANIZATIONS — These clubs are organized to create a more academic and intellectual atmosphere on the campus.

THE ETA ALPHA CHAPTER of TAU ALPHA PI engages in activities that promote high academic standards.

Qualifications for membership include a 3.3 quality point ratio with a minimum of 38 quarter hours of work completed. Membership is presently limited to technical division students.

THE GASTON COLLEGE CHAPTER OF THE GAMMA BETA PHI SOCIETY is organized to promote scholarship, leadership, and good citizenship. Membership qualifications include a minimum of 2.5 quality point average.

CLASS ORGANIZATIONS

Each class has its own organization, elects its officers and representatives to the Student Government Association each year, and has an advisor from the administration or faculty.

LIBRARY SERVICES

The library has a growing collection of materials selected by trained professional librarians in consultation with faculty and administrative personnel.

Attractive exhibits of books, newspapers, and current periodicals encourage students to read. The library hours are from 8:00 a. m. to 9:00 p. m. Mondays through Fridays, and from 9:00 a. m. to 12:00 noon on Saturdays.

BOOKSTORE

The College maintains a Bookstore on the campus. It is operated as a service to the student body, faculty and staff. Textbooks, school supplies and other course-related materials are available at the Bookstore. In addition, the store offers for sale other items which are of especial interest to Gaston College students.

SNACK BAR

The College offers a Snack Bar which is located adjacent to the Student Lounge. The Snack Bar supplies sandwiches, hamburgers, hotdogs, confections, soft drinks, and other related items in demand by the students, faculty and staff.

ATHLETICS AND INTRAMURAL ACTIVITIES

Gaston College has an intercollegiate basketball team. Other intercollegiate activities may be organized on a year to year basis according to the interest of the student body in those sports. There are also a number of intramural athletic competitions organized under the auspices of the department of physical education.

OTHER STUDENT ACTIVITIES

The student activity fee provides a package of entertainment, cultural, and recreational activities. The payment of this fee, required of each full-time student, provides free admission to college dramatic productions, Student Government Association activities, socials and entertainment furnished and sponsored by Gaston College, and subscriptions to the college newspaper and annual.

A number of organizations designed for students with a particular interest include:

SERVICE CLUBS—These clubs donate time and energy to college and community projects, under the guidance of college and community leaders.

THE COLLEGIATE CIVITAN CLUB for male students, as well as THE COLLEGIATE CIVENETTES CLUB, is sponsored by the Gastonia Civitan Club of Civitan International.

THE DOLPHIN CLUB is sponsored by the Pilot Club of Gastonia with membership open to female students.

THE SOUTHERN BELLES is a service club with membership open to female students in the sophomore class.

INTEREST CLUBS—These clubs are organized to provide association and development of students with similar interests and goals.

THE AMATEUR RADIO CLUB has as its purpose increasing the members' knowledge of radio and communication techniques. Membership is open to all students who are interested in amateur radio.

THE AMERICAN SOCIETY OF TOOL MANUFACTURING ENGINEERS (A.S.T.M.E.) is designed to help its members broaden their knowledge in the area of tool manufacturing. Membership is open to any interested student.

THE STUDENT ASSOCIATE BRANCH OF THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (I.E.E.E.) is organized to disseminate knowledge of theories and practice of all aspects of electronics and related fields of electrical engineering. Membership is open to any student enrolled in the technical division.

THE LIBRARY CLUB is concerned with the exchange of ideas and information concerning the library and its use. All interested students are encouraged to join.

THE SCIENCE CLUB is designed to stimulate more interest in the various areas of science.

PLACEMENT OF GRADUATES

An active and organized placement service is maintained under the supervision of a Placement Director. This service is available to all prospective graduates and alumni.

Approximately 160 employer organizations seek graduates of the Technical Division and approximately seventy of these conduct regularly scheduled visitations to the Campus for interview purposes. These company representatives from throughout the southeastern region usually conduct general interviews for all interested students at which employment policies, practices, and opportunities are discussed in general terms. These general interviews are followed by scheduled individual student interviews of approximately twenty minutes duration. On the basis of these individual interviews and of the student records and recommendations furnished by the College the employer representative will offer employment to some of the students interviewed. These employment offers are usually made by individual letters to the students within a few weeks following the interviews.

In addition to the employer visitations at the Campus a number of field trips are arranged during the year for prospective graduates. These field trips serve the dual purpose, as do the general interviews on campus, of providing industrial orientation for the students as well as opportunities for placement interviews.

A placement library is maintained to provide the prospective graduate with advance information on employment opportunities and company policies.

Information on prospective graduates as to numbers, specializations, and qualifications is furnished on a regular basis to a growing number of firms employing technical manpower both within and without the Piedmont area.

This placement service is also available to alumni of the College and former graduates of the Gaston Technical Institute who for one reason or the other find it desirable to change employment.

Regular follow-up surveys of job titles, job descriptions, and salaries for all graduates are conducted in order to maintain current information on the status and progress of graduates.

Because of the critical shortage of qualified technically trained personnel, the employment opportunities for the graduate engineering technician are exceptional. The prospective graduate has, on the average, approximately six excellent employment offers providing exceptional opportunity for both professional and financial advancement on the forefront of the expanding frontier in engineering technology.

Register of Engineering Technology Graduates (487)

1965 ENGINEERING TECHNOLOGY GRADUATES (115)

Edgar Clyde Alexander, Jr.	Electronics -----	Hayes, N. C.
Wayne Morris Aycock	Electronics -----	High Point, N. C.
Luther Bradford Barringer	Civil -----	Richfield, N. C.
Roger Dean Baucom	Mech. & Prod. -----	Lowell, N. C.
Roger Lee Benfield	Electronics -----	Gastonia, N. C.
Joseph Morris Bland	Electronics -----	Sanford, N. C.
Charles William Bradshaw	Civil -----	Mooreville, N. C.
Barry Mitchell Briles	Civil -----	Greensboro, N. C.
Harvey Francis Brooks	Mech. & Prod. ----	Winston Salem, N. C.
John Alan Brumbaugh	Electronics --	Hartsville, S. C.
James Waller Bryan	Mech. & Prod. -----	Burlington, N. C.
Thomas Allen Burke	Civil -----	Charlotte, N. C.
Silas Steve Burris	Civil -----	Lincolnton, N. C.
Arthur Preston Cavanaugh, Jr.	Mech. & Prod. -----	Wallace, N. C.
Joseph Chaney, III	Mech. & Prod. ----	Harwood, Maryland
John Wylie Clark	Electronics -----	Stanley, N. C.
Arthur George Clough	Civil -----	Marion, N. C.
Gerald Wayne Cobb	Civil -----	Roxboro, N. C.
James Edgar Collins	Mech. & Prod. -----	Cameron, N. C.
Buddy Gray Creed	Electrical -----	Mt. Airy, N. C.
Richard Stanton Cromlish, Jr.	Civil -----	Belmont, N. C.
Bruce Dean Dearman	Civil -----	North Wilkesboro, N. C.
Gary Ernest Dellinger	Mech. & Prod. -----	Gastonia, N. C.
Richard Howard Douthwaite	Electronics -----	Wilmington, N. C.
Lester Wayne Eller	Mech. & Prod. --	Granite Quarry, N. C.
Glen Darrow Fogleman	Civil -----	Durham, N. C.
Ralph Thomas Frazier	Civil -----	North Wilkesboro, N. C.
Steven Tony Garland	Electrical -----	Hartsville, S. C.
Joseph Lee Garner	Electronics -----	Newport, N. C.
Jerry Dean Gordon	Mech. & Pro. ----	Winston Salem, N. C.
John Watt Gray, III	Civil -----	Smithfield, N. C.
Sherrill Hershal Greene	Civil -----	Morganton, N. C.
Edwin Harry Hammill	Electronics -----	Gold Hill, N. C.
Denton McKendree Harold, Jr.	Electronics -----	Charleston, W. Va.
Marvin Ned Harrelson	Mech. & Prod. -----	Shelby, N. C.
Parris Kenneth Hastings, Jr.	Electronics -----	Charlotte, N. C.
Philip Dwight Hill	Electrical -----	Youngsville, N. C.
Dale Johnson Hoover	Civil -----	High Point, N. C.
Willard Clark Houck, Jr.	Mech. & Prod. -----	Oakboro, N. C.
David Lee Hubbard	Mech. & Prod. -----	Belmont, N. C.
Harold Troy Humble, Jr.	Civil -----	Liberty, N. C.
Larry Stephen Hyder	Mech. & Prod. --	Hendersonville, N. C.
John Allen Ingle	Civil -----	Charlotte, N. C.
Robert Lee Jobe	Mech. & Prod. -----	Greensboro, N. C.
Ralph Eugene Johnson, Jr.	Electrical -----	Vale, N. C.
Roger Dale Jones	Mech. & Prod. --	Winston Salem, N. C.
James Nello Kelly, Jr.	Mech. & Prod. -----	Sanford, N. C.
Robert Michael Kenley	Mech. & Prod. -----	Gastonia, N. C.
Fred Alexander Kirkman	Civil -----	Kernersville, N. C.
Larry Gilbert Koontz	Electronics -----	Lexington, N. C.
Robert Gray Kurfees	Civil -----	Statesville, N. C.

Keith Paul Layel
 Charles Douglas Ledford
 Robert Donald Lee, Jr.
 Robert Lee McClure
 William Randall McConnell
 William Thad McMickle, Jr.
 Jimmy MacArthur Mann
 Jerry Dale Martin
 Charles Frederick Mauney
 Billy Carter Miller
 John Russell Miller
 Malcolm Key Mobley
 James Garney Morrow, Jr.
 Hugh Sharon Motsinger
 Willie Eugene Munn
 Richard Everett Navy
 William Lee Noles, Jr.
 Noel Rockwell Norman, Jr.
 David Corbett O'Keef, Jr.
 Ronald Allen Pace
 Robert Lee Penley
 Carlos Benjamin Pettigrew
 Arthur Norman Poultney
 William David Pridgen, Jr.
 Victor Greene Pyles, Jr.
 Garland William Queen
 Robert Bruce Rhyne
 Robert Coleman Ring
 Gerald Paul Robinson
 James Richard Sharpe, Jr.
 James Therrell Shoaf, Jr.
 Richard Allen Shroyer
 Gary Wayne Simmons
 Danny Ricks Sink
 Jerry Lewis Smith
 Jerry Willard Smith
 Kenneth Douglas Smith
 Richard Douglas Smith
 James Wharton Snead, Jr.
 Franklin Dee Snow
 Rubert Harold Stanley
 David Maurice Stewart
 John Alton Stewart
 Ronald Vernon Swicegood
 Edwin Thomas Sykes
 Raymond Dennis Tate
 Stanely Bruce Tate
 Carl David Taylor
 James Joseph Taylor
 Randolph Graham Taylor
 Lewis Gray Thompson
 Thomas Franklin Thornton
 Joseph Harvard Tuttle, Jr.
 Robert Lewis Tuttle
 Walter Wallace Van Meter
 Wade Douglas Wagoner
 Charles Calvin Watson

Electronics ----- Gastonia, N. C.
 Civil ----- Gastonia, N. C.
 Civil ----- Greensboro, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Civil ----- Mount Holly, N. C.
 Mech. & Prod. ----- Dallas, N. C.
 Electronics ----- Newport, N. C.
 Electrical ----- Gibsonville, N. C.
 Civil ----- Dallas, N. C.
 Electronics ----- Belmont, N. C.
 Mech. & Prod. ----- Winston Salem, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Mech. & Prod. ----- Lowell, N. C.
 Mech. & Prod. ----- Kernersville, N. C.
 Electrical ----- Hartsville, S. C.
 Civil ----- Fairmont, N. C.
 Mech. & Prod. ----- Salisbury, N. C.
 Mech. & Prod. ----- Asheville, N. C.
 Mech. & Prod. ----- Charlotte, N. C.
 Electronics ----- Pisgah Forest, N. C.
 Electronics ----- Salisbury, N. C.
 Mech. & Prod. ----- Burlington, N. C.
 Electrical ----- Asheville, N. C.
 Electronics ----- Raleigh, N. C.
 Civil ----- Mount Airy, N. C.
 Electronics ----- Gastonia, N. C.
 Civil ----- Gastonia, N. C.
 Civil ----- Siloam, N. C.
 Electronics ----- Troutman, N. C.
 Mech. & Prod. ----- Washington, D. C.
 Mech. & Prod. ----- High Point, N. C.
 Electronics ----- Charlotte, N. C.
 Mech. & Prod. ----- Morganton, N. C.
 Mech. & Prod. ----- Winston Salem, N. C.
 Electronics ----- Gastonia, N. C.
 Civil ----- Winston Salem, N. C.
 Electrical ----- Bristol, Va.
 Civil ----- Gastonia, N. C.
 Electronics ----- Williamston, N. C.
 Civil ----- Mount Airy, N. C.
 Electronics ----- Calypso, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Civil ----- Kings Mountain, N. C.
 Civil ----- Lexington, N. C.
 Electrical ----- Yanceyville, N. C.
 Electronics ----- Mooresville, N. C.
 Electronics ----- Lenoir, N. C.
 Mech. & Prod. ----- Hendersonville, N. C.
 Mech. & Prod. ----- Hendersonville, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Civil ----- Burlington, N. C.
 Civil ----- Burlington, N. C.
 Mech. & Prod. ----- Greensboro, N. C.
 Electronics ----- Winston Salem, N. C.
 Civil ----- Wilkesboro, N. C.
 Mech. & Prod. ----- Elon College, N. C.
 Electrical ----- Gastonia, N. C.

Charles Gordon Weant
 Dallas Marquin Weir, Jr.
 John Dallas Welch
 Ernest Walker White, Jr.
 Michael Armand Wilhelm
 Thomas Perry Winslow
 William Keith Wiseman

Electronics ----- Lexington, N. C.
 Mech. & Prod. ---- Winston Salem, N. C.
 Civil ----- Cherokee, N. C.
 Electrical ----- Hartsville, N. C.
 Civil ----- Hildebran, N. C.
 Mech. & Prod. ----- Troutman, N. C.
 Civil ----- Statesville, N. C.

1964 ENGINEERING TECHNOLOGY GRADUATES (67)

Robert Franklin Abernathy, Jr.
 Elbert Baker Bailey
 Jerry Dale Bare
 Tan Smith Barefoot
 Phillip Eli Buchanan, Jr.
 Eric Daniel Carpenter
 William Calvert Chaney
 Darrell Wesley Church
 William John R. Collins
 Arthur Backman Cook
 Richard Cooper
 Clyde Franklin Crabtree
 William Franklin Crater, Jr.
 Royce Cleveland Currence
 George Vernon Elkins
 Lattie Frank Floyd
 Kenneth Hal Ford
 Leslie Dean Grogan
 Charles Edward Hill
 Ray Von Hinchler
 Joe Roger Holyfield
 Howard Lewis Honbarrier
 Joseph Lawrence Hopson
 Kenneth Arnold Hunt
 Robert Bain Jenkins, Jr.
 James Alfred Keever
 Edward Snow Kilmon
 Robert Lee Kimble, Jr.
 Danny Clayton Leonard
 Cecil Guy Link
 James Wilson McDonald
 Alfred Welch McIntosh
 Jerry Dolan Neal
 Dennis Wade Newman
 Roy Harold Norman, Jr.
 Nathan Lee Ottinger
 Ronnie Earl Parks
 Walter Maurice Patrick
 Glen Wesley Pickelsimer
 Paul Leon Reitzel
 Doyle Alvin Ridley
 Harold Edward Roper
 Ronnie Dale Russell
 Gary Lloyd Smith
 Paul Randal Stanley
 James Wylie Stansell
 John Stephen Steele

Civil ----- Vale, N. C.
 Electronics ----- Williamston, N. C.
 Electronics ----- Jefferson, N. C.
 Electronics ----- Smithfield, N. C.
 Electronics ----- Spruce Pine, N. C.
 Electronics ----- Gastonia, N. C.
 Civil ----- Harwood, Maryland
 Civil ----- Winston-Salem, N. C.
 Electronics ----- Raleigh, N. C.
 Electronics ----- Prosperity, S. C.
 Civil ----- Waynesboro, N. C.
 Electrical ----- Pittsboro, N. C.
 Electrical ----- Winston-Salem, N. C.
 Civil ----- Clover, S. C.
 Electronics ----- Emerson, N. C.
 Electronics ----- Raleigh, N. C.
 Mech. & Prod. -- Bessemer City, N. C.
 Electronics ----- Greensboro, N. C.
 Mech. & Prod. ----- Ararat, N. C.
 Electronics ----- Elkins, N. C.
 Electronics ----- Dobson, N. C.
 Electronics ----- Salisbury, N. C.
 Electronics ----- Minpro, N. C.
 Civil ----- Durham, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Mech. & Prod. ----- Lincolnton, N. C.
 Civil ----- Charlotte, N. C.
 Mech. & Prod. ----- Salisbury, N. C.
 Electronics ----- Lexington, N. C.
 Civil ----- Statesville, N. C.
 Electrical ----- Gastonia, N. C.
 Mech. & Prod. ----- Charlotte, N. C.
 Electronics ----- Sophia, N. C.
 Electrical ----- Mt. Airy, N. C.
 Mech. & Prod. ----- Lincolnton, N. C.
 Electronics ----- Stanley, N. C.
 Mech. & Prod. ----- Kannapolis, N. C.
 Electronics ----- Grifton, N. C.
 Electrical ----- Charlotte, N. C.
 Mech. & Prod. ----- Siler City, N. C.
 Electrical ----- Sylva, N. C.
 Civil ----- Morganton, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Electronics ----- Bessemer City, N. C.
 Civil ----- Gastonia, N. C.
 Electronics ----- Gastonia, N. C.

Jimmy Aswell Surles
 Ronald Allen Swift
 Royall Gene Swift
 Thomas Edwin Tarleton
 Roberts Tatlock, Jr.
 Terry Lawrence Troutman
 Donald Ray Turbyfill
 Waitus Dennis Turlington, Jr.
 Robert David Van Sleen
 Jonathan Robert Ward
 McCoy Carlos Watts
 Thurman Edward Waynick
 Vaughn Sanford Wilhelm
 George Addison Wilson
 Robert Moore Wilson
 Samuel Richard Womble
 Daniel Richard Wood
 Douglas Richard Wright
 James Shelton Wynne
 Roger Wade Yates

Civil ----- Wilkesboro, N. C.
 Electronics ----- Dunn, N. C.
 Civil ----- Cheraw, S. C.
 Electronics ----- Elon College, N. C.
 Civil ----- Spencer, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Electronics ----- Addor, N. C.
 Mech. & Prod. ----- Burlington, N. C.
 Civil ----- Gastonia, N. C.
 Mech. & Prod. ----- Shelby, N. C.
 Mech. & Prod. ----- Rutherfordton, N. C.
 Electronics ----- Ranlo, N. C.
 Electronics ----- Salisbury, N. C.
 Civil ----- Pineville, N. C.
 Civil ----- Gastonia, N. C.
 Mech. & Prod. ----- Chapel Hill, N. C.
 Electronics ----- Winston-Salem, N. C.
 Civil ----- Morganton, N. C.
 Electronics ----- Robersonville, N. C.
 Electronics ----- Gastonia, N. C.

1963 ENGINEERING TECHNOLOGY GRADUATES (78)

Troy Lee Absher
 Rolland Ray Bassinger
 Ray Odell Bedsaul
 Richard Floyd Bradley
 Reginald Kimie Breedlove
 Arthur Dean Brooks
 Stanley James Brothers
 Jerry Zeb Burris
 William Robert Butler
 William Allen Campbell
 John Douglas Cannon
 Farrell Dane Childers
 Benjamin Henry Coble
 Maurice Griffin Cox
 Charles Wiley Cruise
 Alvin William Daniel
 Ronnie Jetton Dedmon
 Howard Odell Euliss
 Boyce Lee Finger, Jr.
 Jerry Woodrow Fogle
 Paul Lestrade Gilbert, Jr.
 James William Gray, Jr.
 William Thomas Griffin
 Roger Heyward Hamrick
 Eddie Jennings, Hardin, Jr.
 James Edward Harmon
 Robert Claymon Helms
 Claude Bryan Henderson
 James Ellis Heules
 Thomas Earl Hill
 Milton Norman Hobgood
 George Robert Hollis
 Billy Jackson Howard
 David Franklin Hullett

Civil ----- McGrady, N. C.
 Mech. & Prod. ----- Salisbury, N. C.
 Electronics ----- Winston-Salem, N. C.
 Civil ----- Gastonia, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Grassy Creek, N. C.
 Electronics ----- Winston-Salem, N. C.
 Electronics ----- Lincolnton, N. C.
 Electronics ----- Wilmington, N. C.
 Civil ----- Salisbury, N. C.
 Civil ----- Morganton, N. C.
 Electronics ----- Hickory, N. C.
 Mech. & Prod. ----- Pleasant Gardens, N. C.
 Electronics ----- Ramseur, N. C.
 Electrical ----- Mt. Airy, N. C.
 Civil ----- Gastonia, N. C.
 Civil ----- Lincolnton, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Avondale, N. C.
 Electrical ----- Dallas, N. C.
 Civil ----- Statesville, N. C.
 Electrical ----- Enfield, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Electrical ----- Shelby, N. C.
 Mech. & Prod. ----- Rutherfordton, N. C.
 Mech. & Prod. ----- Gaffney, S. C.
 Electronics ----- Marshville, N. C.
 Electronics ----- Maysville, N. C.
 Electronics ----- Clarkton, N. C.
 Electrical ----- Gastonia, N. C.
 Electronics ----- Oxford, N. C.
 Electronics ----- Shelby, N. C.
 Civil ----- Durham, N. C.
 Electronics ----- Gastonia, N. C.

Joe Thomas Irwin
 Jerry Lee Isenhour
 Hiram Allen Jones
 Teddy Howard Keyser
 Roby Garland Kidd, Jr.
 Ray James King
 Arey Clifford Little
 George Barry Long
 Elvin Patterson Lowe
 Hilton Lonnie Miller
 Bays Cockerham Mitchell
 Curtis Eugene Moore
 Dewey Max Moore
 Paul David Pyles
 Davis Don Reece
 Clarence McDevitt Rhoades, Jr.
 Arnold Douglas Robinson
 James Benjamin Robinson
 Billy Lee Rogers
 Charles Dennis Rumple
 Jerry Bryan Russell
 Jerry Lynn Seagle
 Elliott Wilson Sherrill
 John Robert Shuler
 Charles Everette Simpson
 Willis Benjamin Simpson, Jr.
 William Henry Slocumb, Jr.
 Howitt Spurling Smith
 Eugene Earl Spooner
 John Phillip Sprinkle
 George Clayton Summers, Jr.
 James David Tarleton
 Richard Calvin Tate
 Donald Ray Taylor
 Arthur Jesse Thrower
 William Wayne Trexler
 John Wayne Wagoner
 Linn Raymond Waller, Jr.
 Samson Warren, Jr.
 Wayne Conley Wiggins
 Donald Ross Wilkinson
 Gregory Dimmette Williams
 Lee Andrews Willis, Jr.

Mech. & Prod. ----- Sparta, N. C.
 Civil ----- Booneville, N. C.
 Mech. & Prod. ----- Laurinburg, N. C.
 Electronics ----- Greensbor, N. C.
 Electronics ----- Bennett, N. C.
 Electronics ----- York, S. C.
 Electronics ----- Marshville, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Mech. & Prod. ----- Liberty, S. C.
 Electronics ----- Salisbury, N. C.
 Civil ----- Sparta, N. C.
 Electronics ----- Hurdle Mills, N. C.
 Electronics ----- Peachland, N. C.
 Civil ----- Mount Airy, N. C.
 Civil ----- Booneville, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Elkin, N. C.
 Civil ----- Statesville, N. C.
 Electrical ----- Winston-Salem, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Sherrill's Ford, N. C.
 Civil ----- Gastonia, N. C.
 Mech. & Prod. ----- Cullowhee, N. C.
 Electronics ----- Kings Mountain, N. C.
 Mech. & Prod. ----- Dunn, N. C.
 Electronics ----- Fallston, N. C.
 Electronics ----- Charlotte, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Electronics ----- Cameron, N. C.
 Electronics ----- Spencer, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Mech. & Prod. ----- Oak Ridge, Tennessee
 Mech. & Prod. ----- Rockingham, N. C.
 Electronics ----- Salisbury, N. C.
 Electronics ----- Gibsonville, N. C.
 Mech. & Prod. ----- Salisbury, N. C.
 Electronics ----- Newton Grove, N. C.
 Electronics ----- Franklin, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Electronics ----- Robbins, N. C.
 Electronics ----- Raleigh, N. C.

1962 ENGINEERING TECHNOLOGY GRADUATES (70)

Edwin Lee Arrowood
 Ronald Odra Ballard
 Andris Barda
 Jerry Mac Barefoot
 Martin William Baucom
 Barry Nash Blackwood
 Joseph David Bogle
 Tommy Lewis Boyd
 Lawrence Linde Brittain
 George Turner Cade

Civil ----- Morganton, N. C.
 Electrical ----- Gastonia, N. C.
 Civil ----- Lincolnton, N. C.
 Electronics ----- Smithfield, N. C.
 Mech. & Prod. ----- Lowell, N. C.
 Civil ----- Durham, N. C.
 Civil ----- Belmont, N. C.
 Electronics ----- Kings Mountain, N. C.
 Mech. & Prod. ----- Hickory, N. C.
 Civil ----- Fayetteville, N. C.

William Henderson Clark
 Ronald Gilbert Cloninger
 Richard Neil Crawford
 Walter Gray Credle
 David Samuel Crews
 William Herman Dalton
 John Rayford Dawkins
 William Stokely Elliott
 Dale Monroe Fox
 Gerald Bryan Gabriel
 James Monroe Garner
 William O'Daniel Gray
 William Robert Hale
 Jerry Dade Hall
 William Frederick Herter
 Joseph Alvin Hough
 Oscar Lee Huss, Jr.
 Joel Marshall Isley
 Melvin Clarence Jenkins, Jr.
 Larry Eugene Johnson
 Donald Wayne Jones
 Tommy Haywood Jordan
 Warren Lee Kafitz
 Jack Holden Kennedy
 Webster Bayne Koontz
 John Fergerson Lamson, II
 James Edwin Lineback
 John William Long, III
 Harold Dean Marley
 James Osborn McCain
 Gene Edward McCorkle
 James William McLurd, Jr.
 William Paul Moretz
 Verlin Kenneth Oliver
 Hal Clark Oswalt, Jr.
 Charlie Horace Palmer
 Willie Chappell Pettus, Jr.
 James Paul Pollick
 Thomas Jordan Robert
 Jerry Allen Rogers
 Gramrie Earl Rountree
 Wallace Reginald Royster
 William Joseph Russell
 Larry Hall Shore
 James Richard Shumate
 Powell Floyd Sigmon
 Terrell Ray Smith
 Ted Garland Stone
 Donald Dee Stowe
 Jackie McCoy Swicegood
 Walter Gray Taylor
 James Dwight Templeton
 Lacy Quint
 Paul Russell Timmons
 William Covington Thomas
 Waddell, Larry Scott
 Webster Russell Walker

Electronics ----- Bessemer City, N. C.
 Civil ----- Gastonia, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Electrical ----- Englehard, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Civil ----- Gastonia, N. C.
 Electronics ----- Gastonia, N. C.
 Civil ----- Edenton, N. C.
 Electrical ----- Statesville, N. C.
 Electronics ----- Sherrill's Ford, N. C.
 Electronics ----- Robbins, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Greensboro, N. C.
 Electronics ----- Burlington, N. C.
 Mech. & Prod. ----- Lincolnton, N. C.
 Civil ----- Greensboro, N. C.
 Electronics ----- Crouse, N. C.
 Civil ----- Silver City, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Durham, N. C.
 Mech. & Prod. ----- Greensboro, N. C.
 Electronics ----- Winston-Salem, N. C.
 Electronics ----- Gastonia, N. C.
 Civil ----- Kings Mountain, N. C.
 Electronics ----- Lexington, N. C.
 Electronics ----- Statesville, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Electronics ----- Mocksville, N. C.
 Electronics ----- North Wilkesboro, N. C.
 Electronics ----- Candler, N. C.
 Electronics ----- China Grove, N. C.
 Electronics ----- Crouse, N. C.
 Electronics ----- Bessemer City, N. C.
 Electronics ----- Jonesville, N. C.
 Electronics ----- Durham, N. C.
 Electronics ----- Lyons, Georgia
 Electronics ----- Keysville, Va.
 Electronics ----- Dudley, N. C.
 Mech. & Prod. ----- China Grove, N. C.
 Electronics ----- Greensboro, N. C.
 Electronics ----- Sunbury, N. C.
 Electronics ----- McGrady, N. C.
 Mech. & Prod. ----- Staunton, Va.
 Electronics ----- Greensboro, N. C.
 Electronics ----- North Wilkesboro, N. C.
 Electronics ----- Hudson, N. C.
 Civil ----- Belmont, N. C.
 Electronics ----- Willow Springs, N. C.
 Electronics ----- Belmont, N. C.
 Electronics ----- Lexington, N. C.
 Electronics ----- Lewisville, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Civil ----- Gibsonville, N. C.
 Electronics ----- Mt. Airy, N. C.
 Mech. & Prod. ----- Rockingham, N. C.
 Mech. & Prod. ----- Raleigh, N. C.
 Civil ----- Aurora, N. C.

John Ritch Wentz, III
 Teddy Adrian Wilkinson
 Arlin Edwards Wilson

Electronics ----- Morven, N. C.
 Electronics ----- Wadesboro, N. C.
 Electronics ---- Kings Mountain, N. C.

1961 ENGINEERING TECHNOLOGY GRADUATES (56)

William Parks Abernathy
 Hugh Howard Anderson
 James Kindred Bass
 Alfred Lawrence Billings
 Charles Lester Britt
 George David Buchanan
 Charles Laxton Burns
 Teddy Brooks Canup
 Wayne Elwood Coldfelter
 Charles Emory Cunningham
 Ralph Leonard Dalton
 Carlisle Berry Davis
 Jon Harold Davis
 George Willis Ellis
 Thomas Murrell Frick
 Jack Austin Gentry
 Aubrey Wayne Gibbs
 Thomas Martin Goodwin, II
 Bobby Eagle Graham
 William O'Daniel Gray, Jr.
 Donald Lee Hamrick
 James Jackson Hardin
 James Errol Harris
 William Daris Hefner
 Maurice Edward Henderson
 Roger Graham Holbrook
 Oscar Alton Holt
 Edwin Coy Ingle
 Charles Roger Jones
 Fred Wilson Justice
 David Worth Kesler
 Linwood Robbins King, Jr.
 Kerney Lee Koontz, Jr.
 Jerry Edward Lucas
 Joseph Duance Lytle
 James Ramey Martin
 William Jennings McCain
 James DeWitt McGilvary
 James Stimpson McRae
 Clyde Hanes Morgan, Jr.
 William Lee Pearson
 Nelson Eddy Rabb
 Donald Eugene Ross
 John Huey Sanders, Jr.
 Robert Steele Shackelford
 Harold Lawrence Shehane
 Glenn Oliver Smith
 Marx Dunbar Stewart
 Troy Ledale Stewart
 William Allen Stewart
 Charles Edward Testerman

Electronics ----- Salisbury, N. C.
 Mech. & Prod. ----- Aberdeen, N. C.
 Electronics ----- Tarawa Terrace, N. C.
 Mech. & Prod. ----- Elkin, N. C.
 Civil ----- Carthage, N. C.
 Electronics ----- Franklin, N. C.
 Electronics ----- Ellenboro, N. C.
 Mech. & Prod. ----- Kannapolis, N. C.
 Mech. & Prod. ----- Lexington, N. C.
 Civil ----- Charlotte, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- St. Pauls, N. C.
 Civil ----- Gastonia, N. C.
 Electronics ---- Winston-Salem, N. C.
 Civil ----- Raleigh, N. C.
 Electronics ----- Elkin, N. C.
 Civil ----- Swan Quarter, N. C.
 Electronics ----- Raleigh, N. C.
 Electronics ----- Salisbury, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Morganton, N. C.
 Electronics ----- Elkin, N. C.
 Civil ----- Hickory, N. C.
 Electronics ----- Raleigh, N. C.
 Electronics ----- Greensboro, N. C.
 Electronics ----- New Hill, N. C.
 Electronics ----- Burlington, N. C.
 Electronics ----- Raleigh, N. C.
 Electronics ----- Lincolnton, N. C.
 Electronics ----- Salisbury, N. C.
 Electronics ----- Turkey, N. C.
 Electronics ----- Lexington, N. C.
 Electronics ----- Albemarle, N. C.
 Electronics ----- Lexington, N. C.
 Electrical ----- Gibsonville, N. C.
 Mech. & Prod. ----- Candler, N. C.
 Electronics ----- Sanford, N. C.
 Electrical ----- Mt. Gilead, N. C.
 Mech. & Prod. ----- Sanford, N. C.
 Civil ----- N. Charleston, S. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Electronics ----- Norwood, N. C.
 Mech. & Prod. ----- Belmont, N. C.
 Electrical ----- Greenville, N. C.
 Electronics ----- Gastonia, N. C.
 Mech. & Prod. ----- Rockingham, N. C.
 Electronics ----- Raleigh, N. C.
 Electrical ----- Gibsonville, N. C.
 Electronics ----- Smithfield, N. C.
 Electronics ----- Grassy Creek, N. C.

James Ray Triplett
 James Lamar Whisnant
 Barna Osborne Wilder
 Ronald Lee Willis
 John Eustace Yelvington, Jr.

Civil ----- North Wilkesboro, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Electronics ----- Zebulon, N. C.
 Civil ----- Spray, N. C.
 Electronics ----- Clayton, N. C.

1960 ENGINEERING TECHNOLOGY GRADUATES (62)

Sidney Herman Allen
 Donald Keith Andrew
 Harvey Paul Austin
 William Fred Bass
 Tony Haldon Bell
 William Howard Best, Jr.
 Gary James Bottomley
 Arthur Dean Carter
 Virgil Keith Cheek
 Ronny Albert Childres
 William Ivy Clapp
 Dwight McKinley Cook
 James Allen Cox
 Billy Ray Creech
 Thomas Rodney Cromwell
 Harris Adam Crowell
 Robert Spencer Earnhart
 Vaught Herbert Elledge
 Lloyd Van Fishel
 John Paul Freeman
 Thomas Wade Gaddy
 Cleveland Roscoe Galloway
 Donald George Gowens
 Eubert Hugh Graham, Jr.
 Edward Lipscomb Graves
 Frank Michael Griffin
 Fred Jerald Hager
 Charles Arnold Hardee
 Carroll Hardin
 Max Rowland Harless
 Roger Brent Hobgood
 William Worth Hodge
 Donald Lee Honeycutt
 Frank Weldon Hoover
 Claude Melvin Hurlocker
 Billy Bascob Isom
 Walter Willis Johnson
 John Roger Kurfees
 Jesse Macon Lawrence, Jr.
 Larry Burton Linville
 Frank William Nolen
 James Allen Nowell
 Julian Edward Padgett
 George Cooper Page
 Thomas Sanford Poteet
 Daniel Stuart Proffitt
 William Norris Purser
 Jerry Phillip Reap

Civil ----- Durham, N. C.
 Electronics ----- Snow Camp, N. C.
 Electronics ----- Aurora, N. C.
 Electronics ----- Louisburg, N. C.
 Electronics ----- Jonesville, N. C.
 Electronics ----- Henderson, N. C.
 Civil ----- North Wilkesboro, N. C.
 Electronics ----- Husk, N. C.
 Electronics ----- Asheboro, N. C.
 Civil ----- Drexel, N. C.
 Electronics ----- Randleman, N. C.
 Electrical ----- Pilot Mountain, N. C.
 Electronics ----- Kannapolis, N. C.
 Electronics ----- Benson, N. C.
 Electronics ----- Bryson City, N. C.
 Civil ----- Greensboro, N. C.
 Mech. & Prod. ----- Spencer, N. C.
 Electronics ----- Wilkesboro, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Electronics ----- Edneyville, N. C.
 Electronics ----- High Point, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Spartanburg, S. C.
 Electronics ----- Salisbury, N. C.
 Electronics ----- Greensboro, N. C.
 Electronics ----- Columbia, N. C.
 Civil ----- Cleveland, N. C.
 Electronics ----- Laurinburg, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Lenoir, N. C.
 Electrical ----- Fort Bragg, N. C.
 Electronics ----- Raleigh, N. C.
 Civil ----- Kannapolis, N. C.
 Electrical ----- Salisbury, N. C.
 Electronics ----- Mt. Pleasant, N. C.
 Civil ----- Angier, N. C.
 Civil ----- Aurora, N. C.
 Civil ----- Statesville, N. C.
 Electrical ----- Mt. Ranier, Maryland
 Electrical ----- Belews Creek, N. C.
 Electrical ----- Franklin, N. C.
 Electronics ----- Eagle Rock, N. C.
 Electrical ----- Union Mills, N. C.
 Electronics ----- Wilson, N. C.
 Mech. & Prod. ----- Drexel, N. C.
 Mech. & Prod. ----- Wilkesboro, N. C.
 Electronics ----- Matthews, N. C.
 Electrical ----- Albemarle, N. C.

Robert Nellson Rosebro, Jr.
 Charles Ellis Silver
 Aaron Earl Smith
 Ambrose Grier Southern
 Ivy Kenyon Stafford, Jr.
 William Thomas Sutton
 Roger Connie Taylor
 Bill Dale Waddell
 John Delano Waddell
 Clarence Kenneth West
 Frank Eagle Whisnant
 Daniel Phillip White
 Darrell Ellis Williams
 Jacob Adolph Williamson

Electronics ----- Gastonia, N. C.
 Electronics ----- Burnsville, N. C.
 Civil ----- New Hill, N. C.
 Electrical ----- Mt. Airy, N. C.
 Electronics ----- Buie's Creek, N. C.
 Electrical ----- Kinston, N. C.
 Electronics ----- Mayodan, N. C.
 Electronics ----- Grassy Creek, N. C.
 Electrical ----- Grassy Creek, N. C.
 Civil ----- Apex, N. C.
 Mech. & Prod. ----- Salisbury, N. C.
 Electronics ----- Greensboro, N. C.
 Electrical ----- Arlington, Va.
 Civil ----- Washington, N. C.

1959 ENGINEERING TECHNOLOGY GRADUATES (39)

Hardee Ammons, Jr.
 Jack Allen Banning
 Jerry Monroe Barringer
 Raymon Pittman Blakely
 William Rex Bowers
 John Thomas Brooks
 David Crockett Clark, Jr.
 Jesse Donald Cline
 Richard Ray Coburn
 Thomas Jackson Cumby
 James Stanfield Felton
 Willie Leon Floyd, Jr.
 Fucius Joseph Freeman
 Delman Ray Gaddy
 Horace Paul Gilgo
 William Graham Grainger
 Max Vernon Griffin
 Max Ellis Grigg
 Kenneth Linwood Hall, Sr.
 Billy Elmore Hayes
 Robert Jordan Hopkins
 Glenn Ray Kilpatrick
 Herbert Lee Kluttz
 James Leonard O'Briant, Jr.
 Joe Roscoe Pitts
 James Lewis Ritchie
 Jim Donald Smith
 Thomas William Smith
 Alexander Candlus Sutton, II
 Jesse Edward Swain, Jr.
 John Robert Tesh
 Alton Hayes Truckner
 Gerald D. Tucker
 Carroll Monroe Wagner
 James Madison Wallace, Jr.
 Kenneth Ray Ward
 James Claude Washam
 James Wayne Williams
 Ralph Lane Wright

Electronics ----- Asheville, N. C.
 Mech. & Prod. ----- Edneyville, N. C.
 Electronics ----- Albemarle, N. C.
 Mech. & Prod. ----- Sanford, N. C.
 Electronics ----- Wadesboro, N. C.
 Electronics ----- Tuckerdale, N. C.
 Electronics ----- Roanoke Rapids, N. C.
 Electronics ----- Statesville, N. C.
 Electronics ----- Roanoke Rapids, N. C.
 Civil ----- Trinity, N. C.
 Electronics ----- Fayetteville, N. C.
 Mech. & Prod. ----- Rose Hill, N. C.
 Electronics ----- Henderson, N. C.
 Electronics ----- High Point, N. C.
 Mech. & Prod. ----- Oriental, N. C.
 Electronics ----- Raleigh, N. C.
 Electronics ----- Dunn, N. C.
 Electronics ----- Gastonia, N. C.
 Mech. & Prod. ----- Asheboro, N. C.
 Electronics ----- Mt. Holly, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Hendersonville, N. C.
 Mech. & Prod. ----- Albemarle, N. C.
 Electronics ----- Durham, N. C.
 Electronics ----- Burlington, N. C.
 Mech. & Prod. ----- Draper, N. C.
 Electrical ----- Lincolnton, N. C.
 Civil ----- Raleigh, N. C.
 Civil ----- Hertford, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Electrical ----- Lexington, N. C.
 Electronics ----- Durham, N. C.
 Civil ----- Locust, N. C.
 Electronics ----- Hendersonville, N. C.
 Electrical ----- Fayetteville, N. C.
 Electronics ----- Archdale, N. C.
 Civil ----- Kannapolis, N. C.
 Electronics ----- Swan Quarter, N. C.
 Electronics ----- Fallston, N. C.

CALENDAR OF EVENTS

TECHNICAL AND VOCATIONAL DIVISIONS

SUMMER QUARTER—1966

June 16, Thursday—Registration Day
June 17, Friday—Class Assignment Day
June 20, Monday—First Day of Classes
June 24, Friday—Last Day to Change Courses or for Late Registration
July 8, Friday—Last Day to Drop Courses Without Penalty
August 5, Friday—Last Day to Drop Courses Without Failure
August 26, Friday—Last Day of Classes
August 29-31, Mon.-Wed.—Final Examinations

FALL QUARTER—1966

September 7-8, Wed.-Thurs.—Registration and Orientation
September 9, Friday—Class Assignment Day
September 12, Monday—First Day of Classes
September 16, Friday—Last Day to Change Courses or for Late Registration
September 30, Friday—Last Day to Drop Courses Without Penalty
October 28, Friday—Last Day to Drop Courses Without Failure
November 18, Friday—Last Day of Classes
November 21-23, Mon.-Wed.—Final Examinations

WINTER QUARTER—1966-67

December 1, Thursday—Registration Day
December 2, Friday—Class Assignment Day
December 5, Monday—First Day of Classes
December 9, Friday—Last Day to Change Courses or for Late Registration
December 16, Friday—Christmas Holidays Begin at Close of Classes
January 2, Monday—Christmas Holidays End at 8:00 a.m.
January 6, Friday—Last Day to Drop Courses Without Penalty
February 3, Friday—Last Day to Drop Courses Without Failure
February 24, Friday—Last Day of Classes
Feb. 27-Mar. 1, Mon.-Wed.—Final Examinations

SPRING QUARTER—1967

March 9, Thursday—Registration Day
March 10, Friday—Class Assignment Day
March 13, Monday—First Day of Classes
March 17, Friday—Last Day to Change Courses or for Late Registration
March 22, Wednesday—Easter Holidays Begin at Close of Classes
March 28, Tuesday—Easter Holidays End at 8:00 a.m.
April 7, Friday—Last Day to Drop Courses Without Penalty
May 5, Friday—Last Day to Drop Courses Without Failure
May 26, Friday—Last Day of Classes
May 29-31, Mon.-Wed.—Final Examinations
May 31, Wednesday—Graduation Exercises

SUMMER QUARTER—1967

June 15, Thursday—Registration Day
 June 16, Friday—Class Assignment Day
 June 19, Monday—First Day of Classes
 June 23, Friday—Last Day to Change Courses or for Late Registration
 July 7, Friday—Last Day to Drop Courses Without Penalty
 August 4, Friday—Last Day to Drop Courses Without Failure
 August 25, Friday—Last Day of Classes
 August 28-30, Mon.-Wed.—Final Examinations

FALL QUARTER—1967

September 6-7, Wed.-Thurs.—Registration and Orientation

● CALENDAR FOR 1966 ●																											
JANUARY							APRIL							JULY							OCTOBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1							1	2						1							1
2	3	4	5	6	7	8	3	4	5	6	7	8	9	3	4	5	6	7	8	9	2	3	4	5	6	7	8
9	10	11	12	13	14	15	10	11	12	13	14	15	16	10	11	12	13	14	15	16	9	10	11	12	13	14	15
16	17	18	19	20	21	22	17	18	19	20	21	22	23	17	18	19	20	21	22	23	16	17	18	19	20	21	22
23	24	25	26	27	28	29	24	25	26	27	28	29	30	24	25	26	27	28	29	30	23	24	25	26	27	28	29
30	31													31							30	31					
FEBRUARY							MAY							AUGUST							NOVEMBER						
							1	2	3	4	5	6	7	1	2	3	4	5	6		1	2	3	4	5		
6	7	8	9	10	11	12	8	9	10	11	12	13	14	7	8	9	10	11	12	13	6	7	8	9	10	11	12
13	14	15	16	17	18	19	15	16	17	18	19	20	21	14	15	16	17	18	19	20	13	14	15	16	17	18	19
20	21	22	23	24	25	26	22	23	24	25	26	27	28	21	22	23	24	25	26	27	20	21	22	23	24	25	26
27	28						29	30	31					28	29	30	31				27	28	29	30			
MARCH							JUNE							SEPTEMBER							DECEMBER						
																				1	2	3					
6	7	8	9	10	11	12	5	6	7	8	9	10	11	4	5	6	7	8	9	10	4	5	6	7	8	9	10
13	14	15	16	17	18	19	12	13	14	15	16	17	18	11	12	13	14	15	16	17	11	12	13	14	15	16	17
20	21	22	23	24	25	26	19	20	21	22	23	24	25	18	19	20	21	22	23	24	18	19	20	21	22	23	24
27	28	29	30	31			26	27	28	29	30			25	26	27	28	29	30		25	26	27	28	29	30	31

● CALENDAR FOR 1967 ●																											
JANUARY							APRIL							JULY							OCTOBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7							1							1	1	2	3	4	5	6	7
8	9	10	11	12	13	14	2	3	4	5	6	7	8	2	3	4	5	6	7	8	8	9	10	11	12	13	14
15	16	17	18	19	20	21	9	10	11	12	13	14	15	9	10	11	12	13	14	15	15	16	17	18	19	20	21
22	23	24	25	26	27	28	16	17	18	19	20	21	22	16	17	18	19	20	21	22	22	23	24	25	26	27	28
29	30	31					23	24	25	26	27	28	29	23	24	25	26	27	28	29	29	30	31				
							30							30	31												
FEBRUARY							MAY							AUGUST							NOVEMBER						
							1	2	3	4	5	6		1	2	3	4	5			1	2	3	4			
5	6	7	8	9	10	11	7	8	9	10	11	12	13	6	7	8	9	10	11	12	5	6	7	8	9	10	11
12	13	14	15	16	17	18	14	15	16	17	18	19	20	13	14	15	16	17	18	19	12	13	14	15	16	17	18
19	20	21	22	23	24	25	21	22	23	24	25	26	27	20	21	22	23	24	25	26	19	20	21	22	23	24	25
26	27	28					28	29	30	31				27	28	29	30	31			26	27	28	29	30		
MARCH							JUNE							SEPTEMBER							DECEMBER						
																				1	2						
5	6	7	8	9	10	11	4	5	6	7	8	9	10	3	4	5	6	7	8	9	3	4	5	6	7	8	9
12	13	14	15	16	17	18	11	12	13	14	15	16	17	10	11	12	13	14	15	16	10	11	12	13	14	15	16
19	20	21	22	23	24	25	18	19	20	21	22	23	24	17	18	19	20	21	22	23	17	18	19	20	21	22	23
26	27	28	29	30	31		25	26	27	28	29	30		24	25	26	27	28	29	30	24	25	26	27	28	29	30
																					31						

GASTON COLLEGE

Technical Division

PROGRAMS OF STUDY

The Curricula

The degree of Associate of Applied Science is awarded in the following four technologies:

CIVIL ENGINEERING TECHNOLOGY

an ECPD accredited Engineering Technician Curriculum

ELECTRICAL ENGINEERING TECHNOLOGY

an ECPD accredited Engineering Technician Curriculum

ELECTRONICS ENGINEERING TECHNOLOGY

an ECPD accredited Engineering Technician Curriculum

MECHANICAL AND PRODUCTION ENGINEERING TECHNOLOGY

an ECPD accredited Engineering Technician Curriculum

Objective

The objective of each of these engineering technology curricula is to offer a planned sequence of college-level courses, for which the graduate receives an Associate of Applied Science degree in the designated field of engineering technology, designed to prepare the graduate for work in the field of engineering technology as an engineering technician or engineering associate.

Engineering technology is that part of the engineering field which requires the application of scientific and engineering knowledge and methods combined with technical skills in support of engineering activities; it lies in the occupational spectrum between the craftsman and the engineer at the end of the spectrum closest to the engineer.

In pursuit of this objective, the college attempts to provide the facilities and campus atmosphere, the co-curricular student activities, the guidance, counseling, and placement activities, as well as the broad general curricula necessary for the fullest development of the student during these formative years.

Accreditation

The four Engineering Technology curricula presently offered are accredited as engineering technician curricula by

the Engineers' Council for Professional Development. The accreditation has been continuous since initial accreditation in 1961.

The ECPD is recognized by the National Commission on Accrediting as the appropriate accrediting agency for the accreditation of engineering technology curricula as well as for curricula leading to first degrees in engineering.

The constituent organizational membership of the ECPD includes:

American Institute of Aeronautics and Astronautics, Inc.

American Institute of Chemical Engineers

American Institute of Industrial Engineers, Inc.

American Institute of Mining, Metallurgical and
Petroleum Engineers

American Society of Civil Engineers

American Society for Engineering Education

The American Society of Mechanical Engineers

The Institute of Electrical and Electronics Engineers, Inc.

National Council of State Boards of Engineering
Examiners

The Engineering Institute of Canada (Affiliate)

The list of curricula which have been accredited by ECPD is revised annually. Through its Engineering Technology Committee, ECPD keeps currently informed of significant changes in curricula, staff, facilities, organization, enrollment, and other pertinent factors in institutions where engineering technology curricula currently are accredited.

Accreditation by ECPD is voluntary and the listing of accredited curricula denotes that the administration of the institution concerned has specifically requested ECPD to evaluate these curricula in accordance with established policies and procedures for evaluating engineering technology curricula, and that each curriculum listed has been found satisfactory for the stated purpose it is designed to serve.

New Curricula

The following two additional engineering technician curricula are proposed to be offered beginning with the Fall Quarter in September 1966:

CHEMICAL ENGINEERING TECHNOLOGY

INDUSTRIAL ENGINEERING TECHNOLOGY

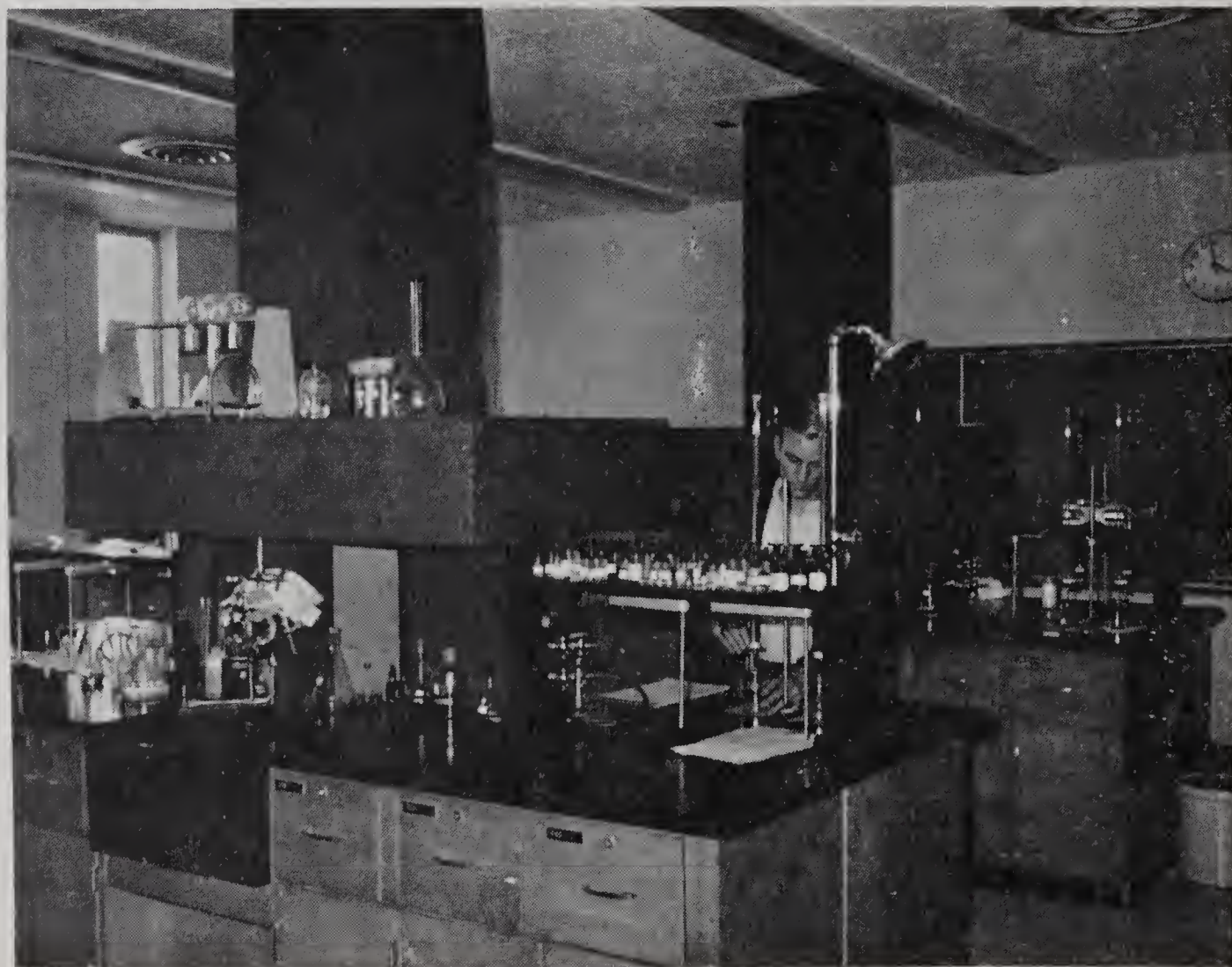
DEPARTMENT OF CHEMICAL ENGINEERING TECHNOLOGY

Mr. George P. Robinson, Associate Professor, Chairman

The program of study in Chemical Engineering Technology is designed to prepare the graduate for considerable versatility as an engineering associate in the fields of chemistry and chemical engineering.

After a thorough background in the basic studies of drawing, English, mathematics, and physics, the student is provided with a comprehensive group of technical specialty courses and laboratories including general chemistry, qualitative analysis, quantitative analysis, organic chemistry, instrumental methods of analysis, and chemical engineering unit operation.

A more complete description of each course required is found on the following pages.



Modern Chemical Laboratories

CHEMICAL ENGINEERING TECHNOLOGY

1st QUARTER			Class	Lab	Cr
CHT	101T	General Chemistry I	3	3	4
Dra	101T	Engineering Drawing I	0	6	2
Eng	101T	Composition I	3	0	3
Mat	101T	Algebra and Trigonometry I	5	0	5
Phy	101T	Mechanics	3	3	4
			—	—	—
			14	12	18
2nd QUARTER					
CHT	102T	General Chemistry II	3	3	4
CHT	112T	Stoichiometry	0	6	2
Eng	102T	Composition II	3	0	3
Mat	102T	Algebra and Trigonometry II	5	0	5
Phy	102T	Heat, Sound, and Light	3	3	4
			—	—	—
			14	12	18
3rd QUARTER					
CHT	103T	General Chemistry III	3	6	5
Dra	103T	Descriptive Geometry	0	3	1
Eng	103T	Public Speaking	3	0	3
Mat	103T	Analytic Geometry and Calculus	5	0	5
Phy	103T	Electricity and Magnetism	3	3	4
			—	—	—
			14	12	18
4th QUARTER					
CHT	201T	Organic Chemistry I	3	6	5
CHT	211T	Quantitative Analysis I	3	6	5
CHT	221T	Unit Operations I	3	6	5
Eng	201T	Report Writing	3	0	3
			—	—	—
			12	18	18
5th QUARTER					
CHT	202T	Organic Chemistry II	3	6	5
CHT	212T	Quantitative Analysis II	3	6	5
CHT	222T	Unit Operations II	3	6	5
Soc	202T	Social Science I	3	0	3
			—	—	—
			12	18	18
6th QUARTER					
CHT	213T	Instrumental Methods of Analysis	3	6	5
CHT	223T	Unit Operations III	3	6	5
CHT	233T	Process Layout	0	6	2
IET	233T	Industrial Organization and Management	3	0	3
Soc	203T	Social Science II	3	0	3
			—	—	—
			12	18	18
GRAND TOTAL -----			78	90	108

DEPARTMENT OF CIVIL ENGINEERING TECHNOLOGY

Mr. J. David Vance, Associate Professor, Chairman

Mr. Clyde H. Robinson, Associate Professor

Mr. Ray L. Medford, Assistant Professor

The program of study in Civil Engineering Technology is designed to prepare the student for various positions in the construction and transportation fields of engineering. The training received will enable the graduate to perform such duties as estimating, specification writing, surveying, inspection, or supervising with both public and private firms. The practice of land surveying, on a self-employed basis if desired, is open to the graduate upon registration. In addition to having an excellent stock of surveying equipment supplied by the State Highway Department, the laboratory is equipped with the essential tools to provide the student with a first-hand working knowledge of the properties and testing procedures for various engineering materials.

The program also gives training in methods and equipment used in heavy engineering types of construction and considerations of the provisions and practical applications of construction contracts and specifications.

The purpose of the course in Civil Engineering Technology is to equip the student with knowledge of practical applications within the broad fields of Civil Engineering, on as wide a basis as may be accomplished in a two-year program.

This two-academic-year curriculum is accredited as an engineering technician curriculum by the Engineers' Council for Professional Development.

A more complete description of each course required is found on the following pages.



Engineering Measurements With a Model 6 Geodimeter

CIVIL ENGINEERING TECHNOLOGY

An ECPD-Accredited Engineering Technician Curriculum

1st QUARTER			Class	Lab	Cr
CET	101T	Surveying I	3	3	4
Dra	101T	Engineering Drawing I	0	6	2
Eng	101T	Composition I	3	0	3
Mat	101T	Algebra and Trigonometry I	5	0	5
Phy	101T	Mechanics	3	3	4
			—	—	—
			14	12	18
2nd QUARTER					
CET	112T	Statics	3	3	4
Dra	112T	Architectural Drawing	0	6	2
Eng	102T	Composition II	3	0	3
Mat	102T	Algebra and Trigonometry II	5	0	5
Phy	102T	Heat, Sound, and Light	3	3	4
			—	—	—
			14	12	18
3rd QUARTER					
CET	103T	Surveying II	3	6	5
CET	113T	Strength of Materials	3	3	4
Dra	103T	Descriptive Geometry	0	3	1
Eng	103T	Public Speaking	3	0	3
Mat	103T	Analytic Geometry and Calculus	5	0	5
			—	—	—
			14	12	18
4th QUARTER					
CET	201T	Surveying III	3	6	5
CET	211T	Properties of Engineering Materials	2	3	3
CET	221T	Construction Methods and Equipment	3	3	4
CET	231T	Contracts and Specifications	3	0	3
Eng	201T	Report Writing	3	0	3
			—	—	—
			14	12	18
5th QUARTER					
CET	202T	Surveying IV	3	3	4
(CET	212T	Steel and Timber Design)	(3)	(3)	(4)
CET	222T	Construction Planning	2	3	3
CET	232T	Soils and Foundations	3	3	4
CET	242T	Properties of Concrete	3	3	4
Soc	202T	Social Science I	3	0	3
			—	—	—
			14	12	18
6th QUARTER					
CET	203T	Design of Roads and Pavement	3	3	4
(CET	213T	Reinforced Concrete)	(3)	(0)	(3)
CET	223T	Construction Estimates	3	3	4
CET	233T	Photogrammetry	2	3	3
(CET	243T	Structural Drafting)	(2)	(6)	(4)
Phy	103T	Electricity and Magnetism	3	3	4
Soc	203T	Social Science II	3	0	3
			—	—	—
			14	12	18
GRAND TOTAL -----			84	72	108

DEPARTMENT OF ELECTRICAL ENGINEERING TECHNOLOGY

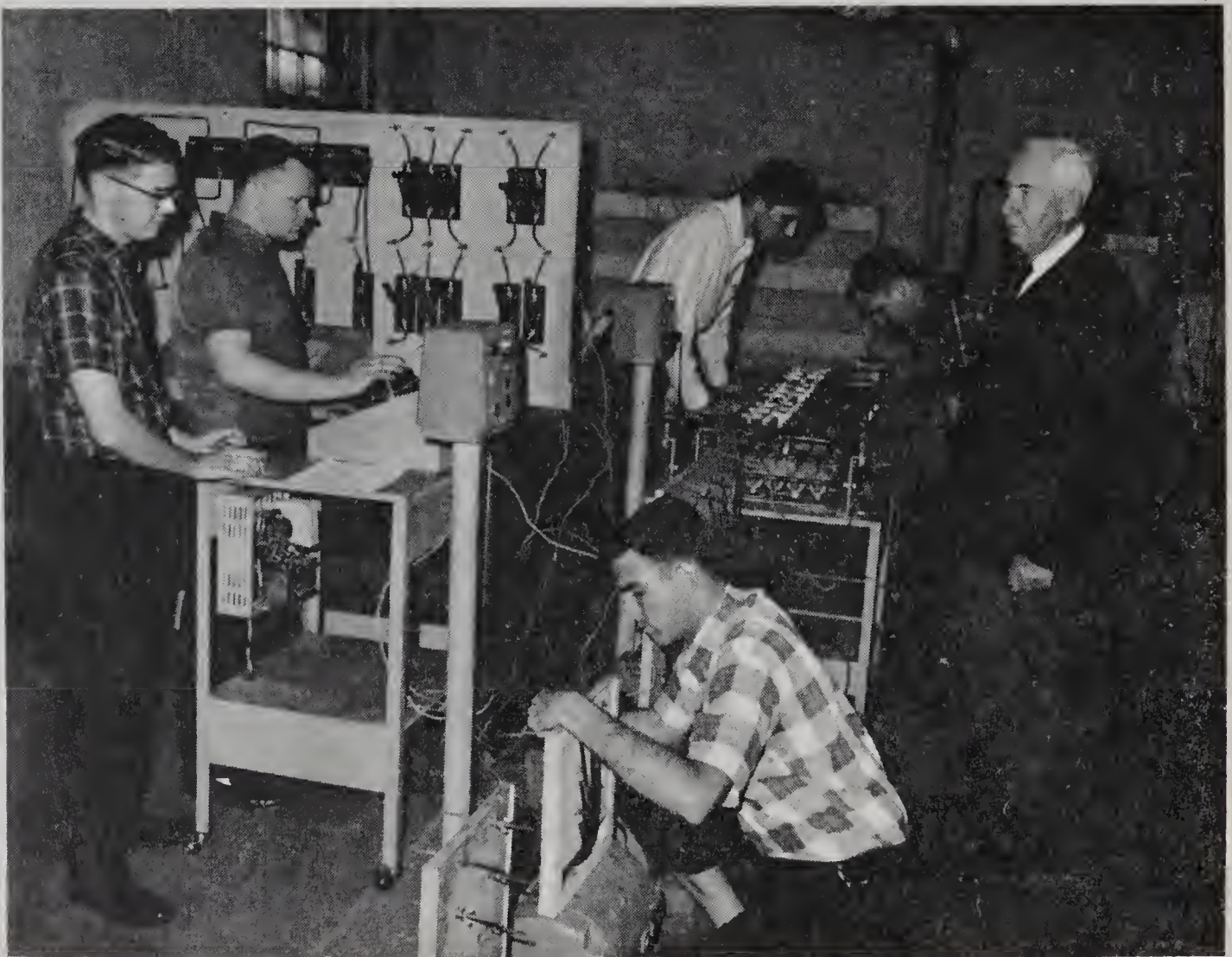
Mr. Raymond A. Fuhrer, Associate Professor, Chairman

The program of study in Electrical Engineering Technology is designed to prepare the student for that large area of opportunity between that of the electrician and that of the electrical engineer. The program is founded upon a carefully selected group of courses that will enable the graduate to enter a wide number of activities such as drafting, sales, supervision of installations, maintenance of power plants and other electrical equipment, and electrical contracting. Many of the graduates go into industry as manufacturing and production technicians.

This program will also equip the student with a knowledge of electrical practice in the commercial, residential, and industrial fields on as wide a basis as may be completed in a two-year course.

This two-academic-year curriculum is accredited as an engineering technician curriculum by the Engineers' Council for Professional Development.

A more complete description of each course required is found on the following pages.



Electrical Power Laboratory

ELECTRICAL ENGINEERING TECHNOLOGY

An ECPD-Accredited Engineering Technician Curriculum

1st QUARTER			Class	Lab	Cr
Dra	101T	Engineering Drawing I	0	6	2
EET	101T	Electrical Fundamentals	3	3	4
Eng	101T	Composition I	3	0	3
Mat	101T	Algebra and Trigonometry I	5	0	5
Phy	101T	Mechanics	3	3	4
			—	—	—
			14	12	18
2nd QUARTER					
Dra	122T	Electrical Drawing	0	3	1
EET	102T	Direct-Current Circuits	3	3	4
Eng	102T	Composition II	3	0	3
Mat	102T	Algebra and Trigonometry II	5	0	5
MET	122T	Manufacturing Processes	0	3	1
Phy	102T	Heat, Sound, and Light	3	3	4
			—	—	—
			14	12	18
3rd QUARTER					
EET	103T	Alternating-Current Circuits	3	3	4
EET	113T	Electronics I	2	3	3
Eng	103T	Public Speaking	3	0	3
Mat	103T	Analytic Geometry and Calculus	5	0	5
Phy	113T	Modern Physics	3	3	4
			—	—	—
			16	9	19
4th QUARTER					
EET	201T	Electrical Circuits I	3	3	4
EET	211T	Electronics II	3	3	4
EET	221T	Electrical Machines	3	3	4
EET	241T	Codes and Specifications	2	3	3
Eng	201T	Report Writing	3	0	3
			—	—	—
			14	12	18
5th QUARTER					
EET	202T	Electrical Circuits II	3	3	4
EET	212T	Electronics III	3	3	4
EET	222T	Alternating-Current Machinery	3	3	4
EET	242T	Illumination	2	3	3
Soc	202T	Social Science I	3	0	3
			—	—	—
			14	12	18
6th QUARTER					
EET	223T	Electrical Control Systems	3	3	4
EET	243T	Design Methods and Estimates	2	3	3
EET	263T	Power Distribution	3	3	4
MET	233T	Industrial Instrumentation	3	3	4
Soc	203T	Social Science II	3	0	3
			—	—	—
			14	12	18
GRAND TOTAL -----			86	69	109

DEPARTMENT OF ELECTRONICS ENGINEERING TECHNOLOGY

Mr. J. Leonard Armstrong, Jr., Assistant Professor, Chairman

Mr. Benjamin C. Horton, Associate Professor

Mr. Donald K. Russell, Instructor

Mr. Wade D. White, Instructor

The program of study in Electronics Engineering Technology is designed to provide the student with a thorough background in the basic studies and sciences and to provide him with the essential specialized courses in the electronics area. Emphasis is upon the broad area of electronics endeavor. Modern laboratory equipment provides for a comprehensive treatment of advanced electronics instrumentation. Graduates are employed in manufacturing, production, testing, inspection, promotion, and sale of electronic equipment and systems.

There is a bright future for the Electronics Engineering Technology graduate in the building, installation, and maintenance of the electric devices that are now considered essential to so many phases of our industrial society.

This two-academic-year curriculum is accredited as an engineering technician curriculum by the Engineer's Council for Professional Development.

A more complete description of each course required is found on the following pages.



Advanced Electronics Instrumentation

ELECTRONICS ENGINEERING TECHNOLOGY

An ECPD-Accredited Engineering Technician Curriculum

1st QUARTER

			Class	Lab	Cr
Dra	101T	Engineering Drawing I	0	6	2
EET	101T	Electrical Fundamentals	3	3	4
Eng	101T	Composition I	3	0	3
Mat	101T	Algebra and Trigonometry I	5	0	5
Phy	101T	Mechanics	3	3	4
			—	—	—
			14	12	18

2nd QUARTER

Dra	122T	Electrical Drawing	0	3	1
EET	102T	Direct-Current Circuits	3	3	4
Eng	102T	Composition II	3	0	3
Mat	102T	Algebra and Trigonometry II	5	0	5
MET	122T	Manufacturing Processes	0	3	1
Phy	102T	Heat, Sound, and Light	3	3	4
			—	—	—
			14	12	18

3rd QUARTER

EET	103T	Alternating-Current Circuits	3	3	4
EET	113T	Electronics I	2	3	3
Eng	103T	Public Speaking	3	0	3
Mat	103T	Analytic Geometry and Calculus	5	0	5
Phy	113T	Modern Physics	3	3	4
			—	—	—
			16	9	19

4th QUARTER

EET	201T	Electrical Circuits I	3	3	4
EET	211T	Electronics II	3	3	4
EET	221T	Electrical Machinery	3	3	4
EET	231T	Pulse Fundamentals	2	3	3
Eng	201T	Report Writing	3	0	3
			—	—	—
			14	12	18

5th QUARTER

EET	202T	Electrical Circuits II	3	3	4
EET	212T	Electronics III	3	3	4
EET	232T	Pulse Circuits	2	3	3
EET	252T	Semiconductor Applications	3	3	4
Soc	202T	Social Science I	3	0	3
			—	—	—
			14	12	18

6th QUARTER

EET	203T	UHF Techniques	3	3	4
EET	213T	Electronics IV	3	3	4
EET	233T	Digital Computer Principles	3	3	4
EET	253T	Servomechanisms	2	3	3
Soc	203T	Social Science II	3	0	3
			—	—	—
			14	12	18

GRAND TOTAL		86	69	109
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DEPARTMENT OF INDUSTRIAL ENGINEERING TECHNOLOGY

Mr. Russell A. Keck, Jr., Assistant Professor, Chairman
Mr. Porter L. McAteer, Assistant Professor

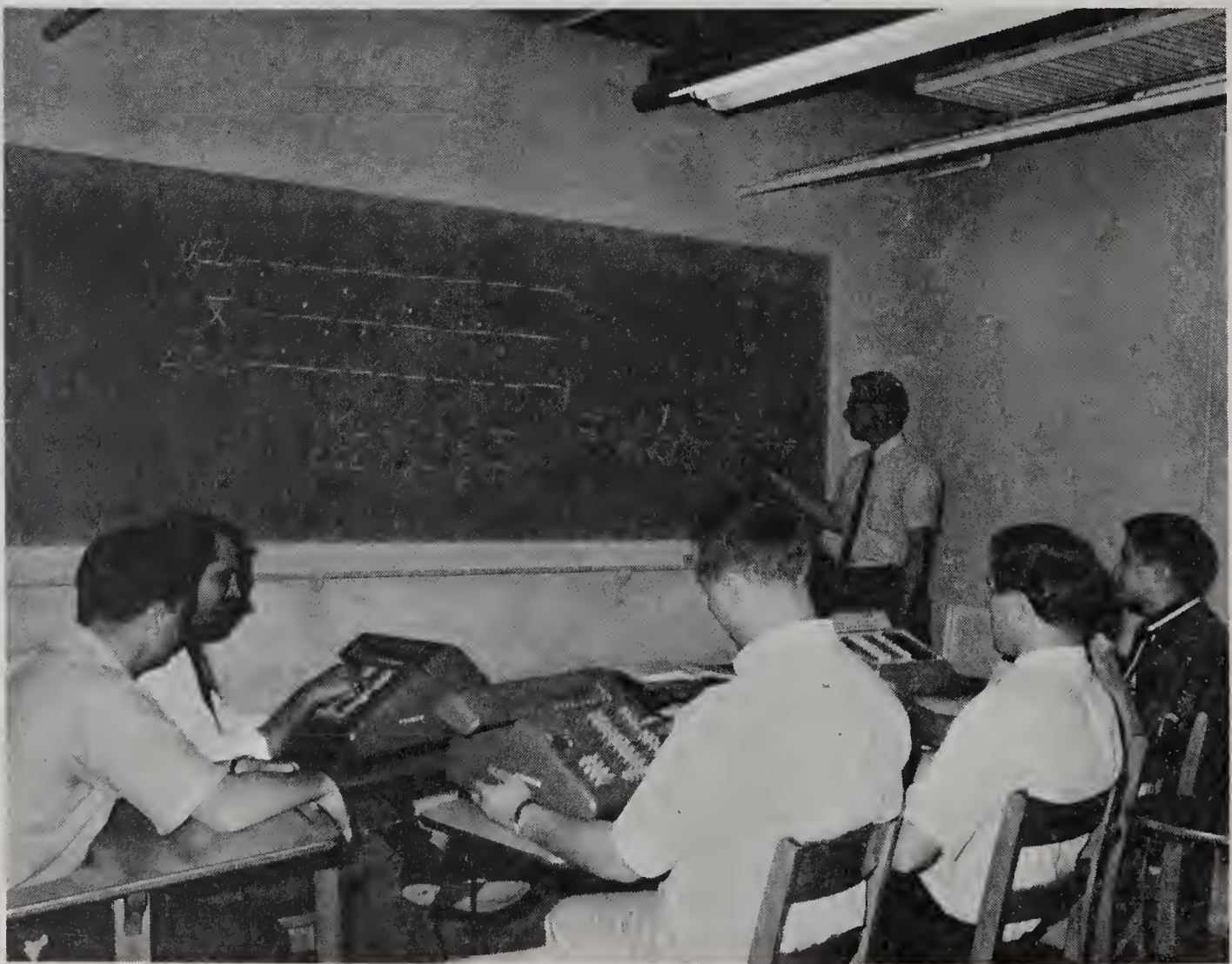
The program of study in Industrial Engineering Technology has as its objective the preparation of engineering technicians to assist the engineer in the performance of Industrial Engineering functions.

The scope of the program is sufficiently broad to cover the major Industrial Engineering functions and yet is sufficiently concentrated to provide a primary emphasis upon the basic functions of motion and time study and quality control.

The balanced program in Industrial Engineering Technology provides a thorough background in drawing, English, mathematics, physics, and Mechanical Engineering Technology, with specialization in subject matter areas such as materials handling, plant layout, industrial organization and management, systems design, production planning and control, motion and time study, and quality control.

The graduate is prepared to readily assume supervisory responsibilities in these areas of activity with all types of industrial concerns, both large and small.

A more complete description of each course required is found on the following pages.



Statistical Studies of Production Control Limits

INDUSTRIAL ENGINEERING TECHNOLOGY

1st QUARTER			Class	Lab	Cr
Dra	101T	Engineering Drawing I	0	6	2
Eng	101T	Composition I	3	0	3
Mat	101T	Algebra and Trigonometry I	5	0	5
MET	101T	Production Technology I	3	3	4
Phy	101T	Mechanics	3	3	4
			—	—	—
			14	12	18
2nd QUARTER					
Dra	102T	Engineering Drawing II	0	6	2
Eng	102T	Composition II	3	0	3
Mat	102T	Algebra and Trigonometry II	5	0	5
MET	102T	Production Technology II	3	3	4
Phy	102T	Heat, Sound, and Light	3	3	4
			—	—	—
			14	12	18
3rd QUARTER					
Dra	103T	Descriptive Geometry	0	3	1
Eng	103T	Public Speaking	3	0	3
IET	103T	Plant Layout and Materials Handling	0	3	1
Mat	103T	Analytic Geometry and Calculus	5	0	5
MET	103T	Engineering Materials	3	3	4
Phy	103T	Electricity and Magnetism	3	3	4
			—	—	—
			14	12	18
4th QUARTER					
Eng	201T	Report Writing	3	3	4
IET	201T	Production Planning	3	0	3
IET	211T	Statistics and Quality Control I	3	0	3
MET	201T	Jig and Fixture Design	2	6	4
MET	221T	Fundamentals of Mechanical Design	3	3	4
			—	—	—
			14	12	18
5th QUARTER					
IET	212T	Statistics and Quality Control II	3	3	4
IET	222T	Methods Analysis	2	3	3
IET	232T	Industrial Systems	3	3	4
MET	202T	Economics of Production	3	3	4
Soc	202T	Social Science I	3	0	3
			—	—	—
			14	12	18
6th QUARTER					
IET	213T	Profit Improvement	3	3	4
IET	223T	Work Measurements	2	6	4
IET	233T	Industrial Organization and Management	3	0	3
MET	233T	Industrial Instrumentation	3	3	4
Soc	203T	Social Science II	3	0	3
			—	—	—
			14	12	18
GRAND TOTAL -----			84	72	108

DEPARTMENT OF MECHANICAL AND PRODUCTION ENGINEERING TECHNOLOGY

Mr. Robert M. Michael, Associate Professor, Chairman

Mr. Russell A. Keck, Jr., Assistant Professor

Mr. Porter L. McAteer, Assistant Professor

Mr. Robert L. Willis, Assistant Professor

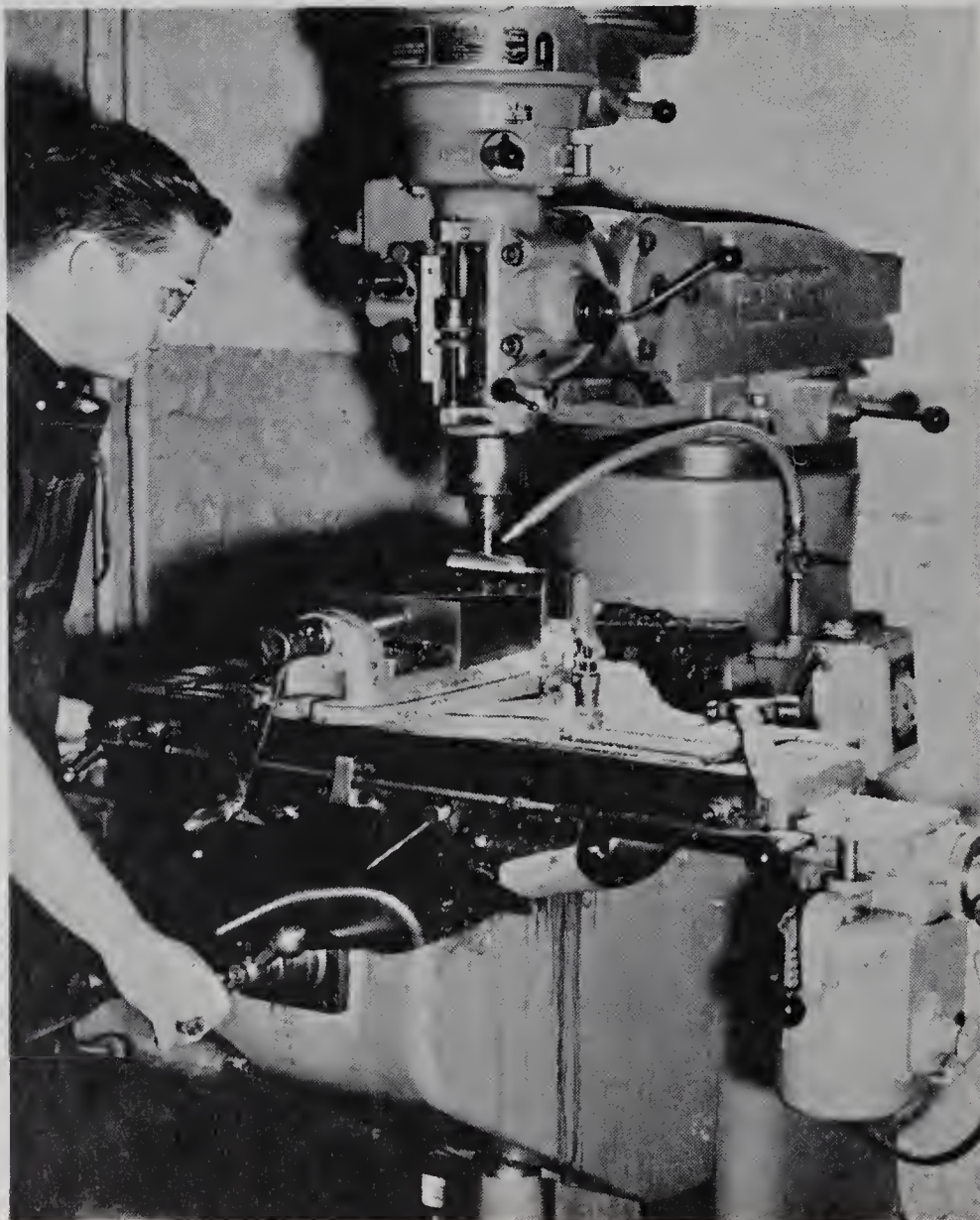
Mr. Richard N. Crawford, Instructor

The program of study in Mechanical and Production Engineering Technology has as its objective the training of personnel to assist the engineer or the small industry in the planning of production processes and equipment, tooling, supervision of personnel, production of material goods, sales, and drafting. A study of the second-year courses will show a wide range of endeavor to familiarize the student with every phase of these processes.

The versatility of the mechanical and production technician results in a demand for him in all types of industry.

This two-academic-year curriculum is accredited as an engineering technician curriculum by the Engineers' Council for Professional Development.

A more complete description of each course required is found on the following pages.



The Technology of Metalworking

MECHANICAL AND PRODUCTION ENGINEERING TECHNOLOGY

An ECPD-Accredited Engineering Technician Curriculum

1st QUARTER			Class	Lab	Cr
Dra	101T	Engineering Drawing I	0	6	2
Eng	101T	Composition I	3	0	3
Mat	101T	Algebra and Trigonometry I	5	0	5
MET	101T	Production Technology I	3	3	4
Phy	101T	Mechanics	3	3	4
			—	—	—
			14	12	18
2nd QUARTER					
Dra	102T	Engineering Drawing II	0	6	2
Eng	102T	Composition II	3	0	3
Mat	102T	Algebra and Trigonometry II	5	0	5
MET	102T	Production Technology II	3	3	4
Phy	102T	Heat, Sound, and Light	3	3	4
			—	—	—
			14	12	18
3rd QUARTER					
Dra	103T	Descriptive Geometry	0	3	1
Dra	133T	Technical Illustration	0	3	1
Eng	103T	Public Speaking	3	0	3
Mat	103T	Analytic Geometry and Calculus	5	0	5
MET	103T	Engineering Materials	3	3	4
Phy	103T	Electricity and Magnetism	3	3	4
			—	—	—
			14	12	18
4th QUARTER					
EET	281T	Electric Circuits and Machines	3	3	4
Eng	201T	Report Writing	3	0	3
IET	201T	Production Planning	3	0	3
MET	201T	Jig and Fixture Design	2	6	4
MET	211T	Statics and Dynamics	3	3	4
			—	—	—
			14	12	18
5th QUARTER					
IET	202T	Motion and Time Study	2	3	3
MET	202T	Economics of Production	3	3	4
MET	212T	Strength of Materials	3	3	4
MET	222T	Mechanisms	3	3	4
Soc	202T	Social Science I	3	0	3
			—	—	—
			14	12	18
6th QUARTER					
IET	203T	Quality Control	3	0	3
MET	203T	Tool and Die Design	2	6	4
MET	223T	Machine Design	3	3	4
MET	233T	Industrial Instrumentation	3	3	4
Soc	203T	Social Science II	3	0	3
			—	—	—
			14	12	18
GRAND TOTAL -----			84	72	108

DESCRIPTION OF COURSES

CHEMICAL ENGINEERING TECHNOLOGY

CHT 101T GENERAL CHEMISTRY I (3-3-4)

Prerequisite: None

Staff

An introductory course in general inorganic chemistry. Subject matter includes the chemical classification of matter, basic atomic structure, chemical symbols, formulas, and equations, valence, oxidation number, nomenclature, the electromotive series, the gaseous state of matter, the liquid and solid states of matter and transitions between states, and the periodic system. Emphasis will be placed on problem solving. Laboratory exercises will be coordinated with classroom work. Textbook: Quagliano - Chemistry, Prentice-Hall.

CHT 102T GENERAL CHEMISTRY II (3-3-4)

Prerequisites: CHT 101T, Mat 101T

Staff

A continuation of CHT 101T. Subject matter includes the electronic theory of chemical bonding, the nature of ionic and covalent bonds, solutions, oxidation and reduction, ionization, electrolysis, acids, bases, salts, chemical equilibrium, reaction rates and mechanisms of chemical reactions. Emphasis is placed on problem solving. Laboratory exercises will be coordinated with classroom material. Textbook: Quagliano - Chemistry, Prentice-Hall.

CHT 103T GENERAL CHEMISTRY III (3-6-5)

Prerequisites CHT 102T, Mat 102T

Staff

A continuation of CHT 101T and CHT 102T. Subject matter includes studies of the Halogen family, the Oxygen-Sulfur family, the Nitrogen family, the alkali metals, the alkaline-earth metals, the transition elements, complex ions and molecules, coordination compounds, light elements, post transition elements, colloids, and an introduction to organic and nuclear chemistry. Laboratory work will consist of qualitative chemical analysis. Textbook: Quagliano - Chemistry, Prentice-Hall.

CHT 112T STOICHIOMETRY (0-6-2)

Prerequisites: CHT 101T, Mat 101T, Phy 101T

Staff

An introduction to chemical engineering technology designed to give the student background in the application of chemistry, mathematics, and physics to the solution of engineering problems. Special emphasis is placed on the development of skill in the analysis and solution of problems dealing with material and energy balances and the gas laws. Textbook: Williams and Johnson - Stoichiometry for Chemical Engineers, McGraw-Hill.

CHT 201T ORGANIC CHEMISTRY I (3-6-5)

Prerequisite: CHT 103T

Staff

An introduction to organic chemistry. Subject matter includes studies of the alkanes, alkenes, alkynes, dienes, cyclic aliphatic hydrocarbons, aromatic hydrocarbons, arenes, electrophilic aromatic substitution, alcohols, alkyl, and aryl halides. Laboratory exercises will be coordinated with classroom work. Textbook: Morrison and Boyd - Organic Chemistry, Allyn-Bacon.

CHT 202T ORGANIC CHEMISTRY II (3-6-5)

Prerequisite: CHT 201T

Staff

A continuation of CHT 201T. Subject matter includes studies of ethers, epoxides, carboxylic acids, sulfonic acids, amines, diazonium salts, phenols,

aldehydes, ketones, glycols, dicarboxylic acids, keto acids, hydroxy acids, heterocyclic compounds, and amino acids. Laboratory exercises will be coordinated with classroom material. Textbook: Morrison and Boyd - Organic Chemistry, Allyn-Bacon.

CHT 211T QUANTITATIVE ANALYSIS I (3-6-5)

Prerequisite: CHT 103T Staff

A study of gravimetric analysis. Subject matter includes classification of gravimetric methods, techniques and tools of gravimetric analysis, the application of solubility product constants, mechanisms of precipitate formation, colloidal suspensions, crystalline precipitates, and contamination of gravimetric precipitates. Emphasis will be placed on problem solving. Laboratory will consist of selected methods of gravimetric analysis. Textbook: Skogg and West - Fundamentals of Analytical Chemistry, Holt-Rinehart-Winston.

CHT 212T QUANTITATIVE ANALYSIS II (3-6-5)

Prerequisite: CHT 211T Staff

A study of volumetric analysis. Subject matter includes the techniques and tools of volumetric analysis, precipitation titrations, volumetric methods based on complex-formation reactions, theory of neutralization titrations of simple systems and complex systems; equilibrium in oxidation-reduction titrations. Laboratory work will be application of neutralization titrations, application of oxidizing and reducing agents. Emphasis will be placed on problem solving. Textbook: Skogg and West - Fundamentals of Analytical Chemistry, Holt-Rinehart-Winston.

CHT 213T INSTRUMENTAL METHODS OF ANALYSIS (3-6-5)

Prerequisites: CHT 202T, CHT 212T, CHT 222T, Mat 103T Staff

Subject matter includes studies of electrode potentials, potentiometry, polarography, voltammetry, amperimetric and voltammetric titrations, electrogravimetry, conductometry, emission spectroscopy, absorption, spectrometry, Raman spectroscopy, X-ray methods, and gas chromatography. Laboratory exercises will consist of application of instrumental analysis techniques. Textbook: Delahay - Instrumental Analysis, Macmillan.

CHT 221T UNIT OPERATIONS I (3-6-5)

Prerequisites: CHT 112T, CHT 103T, Mat 103T, Phy 102T Staff

An introduction to chemical engineering technology unit operations with emphasis on the principles of fluid mechanics. Textbook: Badger and Banchero - Introduction to Chemical Engineering, McGraw-Hill.

CHT 222T UNIT OPERATIONS II (3-6-5)

Prerequisites: CHT 221T, Eng 201T Staff

A continuation of CHT 221T with emphasis on chemical engineering technology unit operations involving heat transfer and evaporation. Textbook: Badger and Banchero - Introduction to Chemical Engineering, McGraw-Hill.

CHT 223T UNIT OPERATIONS III (3-6-5)

Prerequisites: CHT 212T, CHT 222T Staff

A continuation of CHT 221T and CHT 222T with emphasis on mass transfer operations, absorption, extraction, distillation, and filtration. Textbook: Badger and Banchero - Introduction to Chemical Engineering, McGraw-Hill.

CHT 233T PROCESS LAYOUT (0-6-2)

Prerequisites: CHT 222T, Dra 103T

Application of the principles of orthographic projection to design problems in chemical engineering technology; flow sheets, piping layouts, and chemical process equipment. Textbook: Giesecke, Mitchell, and Spencer - Technical Drawing, Macmillan.

CIVIL ENGINEERING TECHNOLOGY

Mr. Vance, Mr. Robinson, Mr. Medford

CET 101T SURVEYING I (3-3-4)

Prerequisite: None Mr. Medford

Principles and practices of obtaining horizontal, vertical, and angular measurements; care and use of instruments; azimuths and bearings; stadia surveys; error analysis. Textbook: Bouchard and Moffitt - Surveying, International.

CET 103T SURVEYING II (3-6-5)

Prerequisite: CET 101T Mr. Vance

Triangulation; latitudes and departures; area computations; contours; map construction; earthwork volumes; municipal surveys; property and construction surveys; instrument adjustment. Textbook: Bouchard and Moffitt - Surveying, International.

CET 112T STATICS (3-3-4)

Prerequisites: Mat 101T, Phy 101T Staff

Forces, resultants, and equilibrium by analytical and graphical methods; moments and couples; forces in simple structures and trusses; centroids and moments of inertia. Textbook: Jensen - Applied Engineering Mechanics, McGraw-Hill.

CET 113T STRENGTH OF MATERIALS (3-3-4)

Prerequisites: CET 112T, Mat 102T Staff

Simple stresses; shear and moment; analysis of simple beams and columns; riveted and welded connections; thin-walled cylinders; torsion; combined stresses. Textbook: Jensen - Applied Strength of Materials, McGraw-Hill.

CET 201T SURVEYING III (3-6-5)

Prerequisite: CET 103T Mr. Vance

Reconnaissance, preliminary, and location surveys; theory and application of simple, compound, and reverse circular curves; spirals, and parabolic vertical curves; highway safety and design controls. Textbook: Hicker-son - Route Surveys and Design, McGraw-Hill.

CET 202T SURVEYING IV (3-3-4)

Prerequisite: CET 103T

Triangulation and trilateration of high order utilizing electronic distance measuring equipment; basic field astronomy; adjustment and reduction of data; use and compilation of state plane coordinates; basic geodesy. Textbook: Bouchard and Moffitt - Surveying, International.

CET 211T PROPERTIES OF ENGINEERING MATERIALS (2-3-3)

Prerequisite: CET 113T Staff

Study and testing of the behavior and characteristics of ferrous and non-ferrous metals, timber, and clay products and bituminous materials; load and strain measurement; behavior of materials under load; qualities other than strength. Textbook: Davis, Troxell and Wiskocil - The Testing and Inspection of Engineering Materials, McGraw-Hill.

CET 212T STEEL AND TIMBER DESIGN (3-3-4)

Prerequisite: CET 113T Staff

Design and analysis of steel and timber members as commonly utilized in buildings and trusses; connections; built-up members; continuous beams; codes and specifications. Textbook: Grinter - Elementary Structural Analysis and Design, Macmillan.

CET 213T REINFORCED CONCRETE (3-0-3)

Prerequisite: CET 242T Staff

Flexural stresses in plain concrete and reinforced-concrete beams; bond,

and diagonal tension; anchorage, embedment, and anchor bolts; reinforced concrete columns; principles of detailing and drafting of reinforced concrete structures. Textbook: Grinter - Elementary Structural Analysis and Design, Macmillan.

CET 221T CONSTRUCTION METHODS AND EQUIPMENT (3-3-4)

Prerequisites: None Staff

Equipment cost and selection; cost and time studies of excavation, belt conveyors, tunnelling, piling, grouting, blasting, and other heavy construction operations. Textbook: Purifoy - Construction Planning, Equipment, and Methods, McGraw-Hill.

CET 222T CONSTRUCTION PLANNING (2-3-3)

Prerequisite: CET 222T Staff

Analysis, layout and organization of construction plant; job and equipment scheduling; operations, charts, and practical application of Critical Path Method (CPM) for planning, scheduling, and time-cost determination. Textbook: Schaffer, Ritter and Meyer - The Critical Path Method, McGraw-Hill.

CET 223T CONSTRUCTION ESTIMATES AND COSTS (3-3-4)

Prerequisite: CET 222T Staff

Method of constructing wood, steel, and concrete buildings; analysis of plans and specifications for construction requirements; preparation of cost estimates. Textbook: Purifoy - Estimating and Construction Costs, McGraw-Hill.

CET 231T CONTRACTS AND SPECIFICATIONS (3-0-3)

Prerequisites: None Staff

Basic engineering law; owner, engineer, contractor relations and responsibilities; contract performance requirements; competitive bidding procedures; preparation and interpretation of specifications. Textbook: Abbett - Engineering Contracts and Specifications, John Wiley.

CET 232T SOILS AND FOUNDATIONS (3-3-4)

Prerequisite: Mat 103T Mr. Robinson

Study of the origin and types of soils and their engineering properties; basic laboratory and field testing; methods of compaction and stabilization. Textbook - Sowers and Sowers - Introductory Soil Mechanics and Foundations, Macmillan.

CET 233T PHOTOGRAMMETRY (2-3-3)

Prerequisite: CET 201T Mr. Vance

Geometry of the aerial photograph; flight planning and specifications; parallax measurements; terrestrial photogrammetry; interpretation of, and control data from aerial photographs. Textbook: Eichler and Tubis - Photogrammetry Lab Kit.

CET 242T PROPERTIES OF CONCRETE (3-3-4)

Prerequisite: Mat 102T Mr. Robinson

An intensive study of the composition and properties of concrete; proportioning of concrete mixes; control and testing of varied concretes; field inspection of concrete manufacturing, placing, and curing. Textbook: Troxell and Davis - Composition and Properties of Concrete, McGraw-Hill.

CET 243 STRUCTURAL DRAFTING (2-6-4)

Prerequisites: CET 212T, Co-requisite CET 213T

Study and preparation of structural plans and shop drawings of steel and reinforced concrete structures including detail drawings of floor slabs, splices, connections, and reinforcing diagrams. Textbook: Selected references and handbooks.

DRAWING

Mr. Ball, Mr. Medford, Mr. Crawford

Dra 101T ENGINEERING DRAWING I (0-6-2)

Prerequisite: None Mr. Ball

The beginner is taught the use and care of instruments, freehand sketching, geometric construction, lettering techniques, orthographic and auxiliary projection, basic theory of dimensions and sections. Textbook: Giesecke, Mitchell, and Spencer - Technical Drawing, Macmillan.

Dra 102T ENGINEERING DRAWING II (0-6-2)

Prerequisites: Dra 101T, Mat 101T Mr. Crawford

Continuation of Dra 101T devoted to drafting room practices, threads, gears, fasteners, and working drawings using limit dimensions and including a parts list "exploded view" pictorial. Textbook: Giesecke, Mitchell, and Spencer - Technical Drawing, Macmillan.

Dra 103T DESCRIPTIVE GEOMETRY (0-3-1)

Prerequisites: Dra 101T, Mat 102T Mr. Ball

Theory of projection drawing and its application in solving practical problems by projection and revolution of points, lines, planes, and solids. Textbooks: Warner and McNeary - Applied Descriptive Geometry, McGraw-Hill; Stinson, Webb, Beaty, and Grump - Worksheets for Engineering Drawing II, Technical Press.

Dra 112T ARCHITECTURAL DRAWING (0-6-2)

Prerequisite: Dra 101T Mr. Ball

Graphic standards; codes and ordinances, construction details; preparation of working drawings. Textbook: Hepler and Wallace - Architectural Drafting and Design, McGraw-Hill.

Dra 122T ELECTRICAL DRAFTING (0-3-1)

Prerequisites: Dra 101T, Phy 102T Mr. Medford

The use of standard templates and A.S.A. symbols, in the preparation of wiring diagrams, block diagrams, and schematics for electronic devices and electrical systems. Inking techniques and lettering templates are emphasized. Textbook: Baer - Electrical and Electronic Drawing, McGraw-Hill.

Dra 133T TECHNICAL ILLUSTRATION (0-3-1)

Prerequisites: Dra 101T, MET 102T Mr. Medford

Continuation of Dra 121 with increased emphasis on preparation of a set of working sketches based on interchangeability of parts, and quantity production "operation" or "job" sheets are prepared with consideration given to cost of production. Textbook: Thomas - Technical Illustration, McGraw-Hill.

ELECTRICAL ENGINEERING TECHNOLOGY ELECTRONICS ENGINEERING TECHNOLOGY

**Mr. Armstrong, Mr. Fuhrer, Mr. Horton
Mr. Lunsford, Mr. Cline, Mr. W. White, Mr. Russell**

EET 101T FUNDAMENTALS OF ELECTRICITY (3-3-4)

Prerequisite: None Mr. Horton

A study of the fundamentals of electricity and magnetism. Subject matter includes electrostatics, magnetism, basic electric circuits, electromagnetism, and measuring instruments. Emphasis is placed on problem solving and engineering applications. Laboratory work to parallel work in the classroom. Textbook: Dawes - Industrial Electricity, McGraw-Hill.

EET 102T ELECTRIC FIELDS AND CIRCUITS (3-3-4)

Prerequisites: Mat 101T, EET 101T Mr. Cline

Basic direct-current circuit theory with special emphasis on theorems and their application. Steady magnetic and electric field theory and basic electrical instruments. Textbook: Lurch - Electric Circuits, Wiley.

EET 103T ALTERNATING-CURRENT CIRCUITS (3-3-4)

Prerequisites: Mat 102T, Phy 102T, EET 102T Mr. Lunsford

Elementary A-C circuits, effective and average values of current and emf, instantaneous and average power. Complex algebra, analysis of simple circuits by substitution and graphical means, loci for R-L and R-C series and parallel circuits, series and parallel resonance. Textbook: Lewis and Goodhart - Basic Electric Circuit Theory, Ronald.

EET 113T ELECTRONICS I (2-3-3)

Prerequisites: EET 102T, Mat 102T Mr. Russell

An introduction into the basic principles of electronics. A study of vacuum tube characteristics and power supply circuits provides a firm background for more specialized electronic circuits. Textbook: DeFrance - General Electronics Circuits, Holt, Rinehart, Winston.

EET 201T ELECTRICAL CIRCUITS I (3-3-4)

Prerequisites: Mat 103T, EET 103T Mr. Lunsford

An introduction to circuit analysis, network equations, Maxwell's mesh method, Thevenin's and Norton's theorems, the nodal method, coupled circuits and mutual inductance. Polyphase circuits, two-phase systems, balanced and unbalanced three-phase circuits, measuring power in polyphase systems. Textbook: Lewis and Goodhart - Basic Electric Circuit Theory, Ronald.

EET 202T ELECTRICAL CIRCUITS II (3-3-4)

Prerequisite: EET 201T Mr. Lunsford

Coupled circuits and transformers, transformer connections, single-phase and polyphase transformers, instrument transformers, hyperbolic and exponential functions, electric filters, characteristic impedance, transmission and attenuation, constant-k filters, m-derived filters, filter design characteristics. Textbook: Lewis and Goodhart - Basic Electric Circuit Theory, Ronald.

EET 203T UHF TECHNIQUES (3-3-4)

Prerequisites: EET 201T, EET 212T Mr. W. White

Study of transmission lines as circuit elements, wave motion, standing waves, use of the Smith chart to solve matching stub problems, wave propagation, directional antennas, and waveguides. Textbook: Lance - Introduction to Microwave Theory and Measurements, McGraw-Hill.

EET 211T ELECTRONICS II (3-3-4)

Prerequisite: EET 113T Mr. Russell

A continuation of EET 113T. Audio voltage and power amplifiers, load lines, distortion, and coupling techniques. Textbook: DeFrance - General Electronics Circuits, Hold, Rinehart, Winston.

EET 212T ELECTRONICS III (3-3-4)

Prerequisites: EET 103T, EET 211T Mr. W. White

A course designed to follow Electronics 103T and Electronics 211T. Feedback circuits, vacuum tube oscillator circuits, audio devices and special audio circuits are covered. The AM and FM receiver studied and analyzed in terms of previous studies of individual components. Textbook: DeFrance - General Electronics Circuits, Holt, Rinehart, Winston.

EET 213T ELECTRONICS IV (3-3-4)

Prerequisite: EET 212T Mr. W. White

A continuation of Electronics III. Study of radio and TV transmitters and receivers. Such topics as modulation, demodulation, and mixing are taken up. Also some antenna properties are covered. Textbook: Terman - Electronic and Radio Engineering, McGraw-Hill.

EET 221T ELECTRICAL MACHINERY (3-3-4)

Prerequisite: EET 103T Mr. Fuhrer

Characteristics, construction, application, and control of direct-current and alternating-current generators and motors; survey of synchronous motors and power transformers. Textbook: Siskind - Electrical Machines, McGraw-Hill.

EET 222T ALTERNATING-CURRENT MACHINERY (3-3-4)

Prerequisite: EET 221T Mr. Fuhrer

Principles, construction, operation, application, and control of single-phase polyphase induction and synchronous motors, synchronous generators and power converters. Textbook: Siskind - A-C Machinery, McGraw-Hill.

EET 223T ELECTRICAL CONTROL SYSTEMS (3-3-4)

Prerequisite: EET 222T Mr. Fuhrer

Study of fundamentals, components, pilot devices, development and analysis of control circuit diagrams, transistor and static control means for D-C and A-C control systems. Textbook: Siskind - Electrical Control Systems, McGraw-Hill.

EET 231T PULSE FUNDAMENTALS (2-3-3)

Prerequisites: EET 103T, Mat 103T Mr. Horton

A study of the responses of resistors, inductors, and capacitors to current and voltage pulses of various waveforms. Square wave testing, differentiating and integrating circuits, compensated voltage dividers, diode switching circuits, and triode switching circuits. Fourier analysis of non-sinusoidal waveforms. Textbook: Ketchum and Alvarez - Pulse and Switching Circuits, McGraw-Hill.

EET 232T PULSE CIRCUITS (2-3-3)

Prerequisites: EET 231T Mr. Armstrong

A continuation of EET 231T with special emphasis on the concept of the vacuum tube or transistor switch. Circuits for generating and using the nonsinusoidal waveforms found in computers, radar, television, and oscilloscopes are studied. Pulse amplifiers, blocking oscillators, sawtooth generators, and multivibrators are among the subjects covered. Textbook: Ketchum and Alvarez - Pulse and Switching Circuits, McGraw-Hill.

EET 233T DIGITAL COMPUTER PRINCIPLES (3-3-4)

Prerequisites: EET 232T, EET 252T

Mr. Armstrong

Study of the basic flip-flops, gating circuits, and amplifiers used in the modern digital computer. The binary number system and binary arithmetic are covered along with a brief treatment of Boolean Algebra. Textbook: Burroughs Corp - Digital Computer Principles, McGraw-Hill.

EET 241T CODES AND SPECIFICATIONS (2-3-3)

Prerequisite: EET 103T

Mr. Fuhrer

Study and application of the National Electrical Code, and the preparation and review of equipment and installation specifications for residential, commercial, and industrial wiring. Textbook: Abbott and Stetka - National Electrical Code, McGraw-Hill.

EET 242T ILLUMINATION (2-3-3)

Prerequisite: EET 102T

Mr. Fuhrer

Study of illumination principles, light sources, luminaries, illumination levels and interior lighting layouts; store and office lighting, industrial and architectural lighting, roadway and floodlighting design. Textbook: Westinghouse - Lighting Handbook, Westinghouse.

EET 243T DESIGN METHODS AND ESTIMATES (2-3-3)

Prerequisite: EET 241T

Mr. Fuhrer

Analysis of plans and specifications for the preparation of electrical estimates; a complete system built around the concept of unit assemblies and a coding system for simplification, with reference tables, symbols, and appropriate estimating forms and procedures. Textbook: Johnson - Design and Estimates, McGraw-Hill.

EET 252T SEMICONDUCTOR APPLICATIONS (3-3-4)

Prerequisites: EET 103T, EET 113T

Mr. Armstrong

Study of semiconductor physics, junction transistors, useful configurations, design methods, "h" parameters, graphical and equivalent circuit analysis, oscillators, applications, and special semiconductor devices. Textbook: Seidman and Marshall - Semiconductor Fundamentals, Wiley.

EET 253T SERVOMECHANISMS (2-3-3)

Prerequisites: EET 221T, EET 212T

Mr. Armstrong

An introduction to the fundamentals of electromechanical data transmission and control systems. A thorough study of synchros provides background for a discussion of their use in a complete system along with electronic amplifiers. Several basic types of motor position and speed control are discussed.

EET 263T POWER DISTRIBUTION (3-3-4)

Prerequisites: EET 222T, EET 241T

Mr. Fuhrer

Design and layout of electrical distribution systems for power, light, heat, signals, and communications; including circuits, services, unit-substations, switchboards, and underground systems for commercial, industrial, and institutional buildings. Textbook: McPartland - Power Distribution, McGraw-Hill.

EET 281 ELECTRIC CIRCUITS AND MACHINES (3-3-4)

Prerequisites: Mat 103T, Phy 113T

Mr. Fuhrer

A survey course for non-electrical students. It includes direct-current and alternating-current circuits, batteries, magnetism, electromagnetic induction, D-C and A-C generators and motors, transformers, circuit protection and switching equipment, electrical instruments, and electronic tubes. Textbook: Lister - Electric Circuits and Machines, McGraw-Hill.

ENGLISH

Mrs. McArver, Miss Shuford, Mr. McDaniel

Eng 101T COMPOSITION

(3-3-0)

Prerequisite: None

Mr. McDaniel

A study of the essentials of standard usage and basic principles of English grammar with emphasis on vocabulary building and proficiency in writing and speaking clearly, effectively, and appropriately. Textbooks: Hodges and Whitten - Harbrace College Handbook, Harcourt-Brace; Hodges and Laws - Harbrace College Workbook, Harcourt-Brace.

Eng 102T COMPOSITION

(3-3-0)

Prerequisite: Eng 101T

Miss Shuford

A course presenting a comprehensive treatment of the major principles of effective business communication, and applying these principles to specific types of everyday, practical writing. Continuation of correct English usage. Textbooks: Hodges and Whitten - Harbrace College Handbook, Harcourt-Brace; Shurter - Effective Letters in Business, McGraw-Hill.

Eng 103T PUBLIC SPEAKING

(3-3-0)

Prerequisite: Eng 102T

Mrs. McArver

A practical course designed to train technicians in the principles and mechanics of oral composition. Vocabulary study of technical terms and phraseology. Training by participation in formal, extemporaneous, and impromptu speaking as well as in conversation and interviewing. Special emphasis on poise and presentation of material. Textbook: Dietrich and Brooks - Practical Speaking for the Technical Man, Prentice-Hall.

Eng 201T TECHNICAL REPORTS

(3-3-0)

Prerequisite: Eng 102T

Mrs. McArver

A seminar course designed for study and practice in the fundamentals of technical writing. Included for discussion are style, arrangement, format, and mechanics of report writing. Practice in all phases of technical writing. Textbook: Ulman and Gould - Technical Reporting, Holt-Dryden.

INDUSTRIAL ENGINEERING TECHNOLOGY

Mr. Keck, Mr. McAteer

IET 103T PLANT LAYOUT AND MATERIALS HANDLING

(0-3-1)

Prerequisite: Dra 101T

Mr. Keck

Principles of plant layout to obtain the most effective utilization of men, materials, and machines as related to space and cost. Selection and use of modern equipment and methods for handling materials in industrial processes. Textbooks: Muther - Practical Plant Layout, McGraw-Hill; Ireson and Grant - Industrial Engineering Handbook, Prentice-Hall.

IET 201T PRODUCTION PLANNING

(3-0-3)

Prerequisite: None

Mr. McAteer

Production planning and control of intermittent manufacturing, continuous manufacturing, sales forecasting, elementary inventory control procedures. Textbook: Mayer - Production Management, McGraw-Hill.

IET 202T MOTION AND TIME STUDY

(2-3-3)

Prerequisite: MET 102T

Mr. Keck

Principles and techniques in motion and time study; stop watch and pre-

determined time systems analysis of industrial operation; laboratory projects involving above principles. Textbook: Neibel - Motion and Time Study, Irwin.

IET 203T QUALITY CONTROL

(3-0-3)

Prerequisite: Mat 102T

Mr. McAteer

Statistical techniques useful to engineers; including elementary probability, frequency distribution, estimation of means, standard deviations, sampling variations and control charts. Textbooks: Alder and Roessler - Probability and Statistics, Freeman; Mayer - Production Management, McGraw-Hill.

IET 211T STATISTICS AND QUALITY CONTROL I

(3-0-3)

Prerequisite: Mat 102T

Mr. McAteer

Statistical techniques useful to engineers; includes elementary probability, frequency distribution, estimation of means, standard deviations, sampling variations, and control charts. Textbooks: Feigenbaum - Total Quality Control, McGraw-Hill; Alder and Roessler - Probability and Statistics, Freeman.

IET 212T STATISTICS AND QUALITY CONTROL II

(3-3-4)

Prerequisite: IET 211T

Mr. Keck

Advanced study in the theory of probability, acceptance sampling, control charts, testing of hypotheses, and elementary least squares curve fitting. Textbooks: Feigenbaum - Total Quality Control, McGraw-Hill; Alder and Roessler - Probability and Statistics, Freeman.

IET 213T PROFIT IMPROVEMENT

(3-3-4)

Prerequisite: Mat 103T

Mr. McAteer

Brief introduction to the advanced tools of scientific management, such as operation research, linear programming, and value engineering, with emphasis on their application to industry. Textbooks: Miles - Techniques of Value Analysis and Engineering, McGraw-Hill; Ireson and Grant - Industrial Engineering Handbook, Prentice-Hall.

IET 222T METHODS ANALYSIS

(2-3-3)

Prerequisite: None

Mr. McAteer

Introduction to the principles of motion economy through the various process charts. Also the techniques of micromotion study, job analysis, and job evaluation. Textbook: Niebel - Motion and Time Study, Irwin.

IET 223T WORK MEASUREMENT

(2-6-4)

Prerequisite: IET 222T

Mr. Keck

Basic time study concepts and familiarization with the tools of time study. The application of performance ratings and allowances to basic times so as to formulate a standard time for a given task. Also the use of standard data and synthetic basic motions and times. Textbook: Neibel - Motion and Time Study, Irwin.

IET 232T INDUSTRIAL SYSTEMS

(3-3-4)

Prerequisite: IET 222T

Mr. Keck

An introduction to the principles, evaluation, requirements, design, analysis, improvement, and installation of industrial systems. Textbook: Ireson and Grant - Industrial Engineering Handbook, Prentice-Hall.

IET 233T INDUSTRIAL ORGANIZATION AND MANAGEMENT

(3-0-3)

Prerequisite: None

Mr. Keck

The interrelations of all systems of modern management. Organizational structure, plant location, safety, industrial and labor relations, and product and material standardization. Textbook: Bethel - Industrial Organization and Management, McGraw-Hill.

MATHEMATICS

Mr. Leong, Mr. E. White, Mr. Cline

MAT 101T ALGEBRA AND TRIGONOMETRY I

(5-0-5)

Prerequisite: None

Mr. E. White

Review of fundamental algebraic operations; analysis of linear and quadratic functions including the conic sections; basic trigonometric functions, exponential and logarithmic functions; finite series. A concerted effort is made to blend the physical applications and the theoretical principles involved into a homogeneous unit. Slide rule instruction is integrated to coincide with the appropriate lecture materials and physical applications. Textbook: Washington - Basic Technical Mathematics With Calculus, Addison-Wesley.

MAT 102T ALGEBRA AND TRIGONOMETRY II

(5-0-5)

Prerequisite: Mat 101T

Mr. Leong

Systems of equations, determinants and Cramer's rule, the complex number system and vector algebra, DeMoivre's theorem and equivalent vector forms. Trigonometric identities and equations, theory of polynomial equations and partial fractions. A rigorous study of infinite series including theorems on limits, indeterminants, the sigma notation; geometric, harmonic, convergent, divergent, alternating and power series. Applications and further slide rule techniques. Textbook: Washington - Basic Technical Mathematics With Calculus, Addison-Wesley.

MAT 103T ANALYTIC GEOMETRY AND CALCULUS

(6-0-5)

Prerequisite: Mat 102T

Mr. Cline

A. Differentiation of algebraic functions by the delta process and the consequent derivation and use of differentiation formulas. Applications in analytic geometry and other physical problems such as the slope function, velocity and acceleration, maxima and minima, approximations and errors by differentials. Differentiation of trigonometric, logarithmic and exponential functions.

B. The anti-derivative, integration techniques and use of the table of integrals. Evaluation of the definite integral, fundamental theorem of calculus, plane areas and volumes of revolution as the limit of a sum. Applications to centroids, moments, fluid pressure and work. Textbook: Washington - Basic Technical Mathematics With Calculus, Addison-Wesley.

MECHANICAL ENGINEERING TECHNOLOGY

Mr. Michael, Mr. Willis, Mr. Keck, Mr. McAteer, Mr. Crawford

MET 101T PRODUCTION TECHNOLOGY I

(3-3-4)

Prerequisite: None

Mr. Crawford

A survey of manufacturing processes, machine tools, and inspection devices with regard to their capabilities, capacities, tolerances, finishes, etc. Laboratory involves operation and use of machine tool and measuring devices. Textbook: Doyle, Morris, Leach, and Schrader - Manufacturing Processes and Materials for Engineers, Prentice-Hall; Porter, Lowshe, and Lasco - Machine Shop Operations and Setups, American Technical Society.

MET 102T PRODUCTION TECHNOLOGY II**(3-3-4)**

Prerequisite: MET 101T

Mr. Crawford

Process planning of operation sequence for efficient production, tool planning, estimating, laboratory operation of machine tool in production projects. Textbooks: Doyle, Morris, Leach, and Schrader - Manufacturing Processes and Materials for Engineers, Prentice-Hall; Porter, Lowshe, and Lasco - Machine Shop Operations and Setups, American Technical Society.

MET 103T ENGINEERING MATERIALS**(3-3-4)**

Prerequisites: MET 101T, Phy 101T

Mr. Michael

A study of the most important materials used in engineering work including wood, concrete, steel, etc. Textbook: Avner - Introduction to Physical Metallurgy, McGraw-Hill.

MET 201T JIG AND FIXTURE DESIGN**(2-6-4)**

Prerequisites: Dra 103T, Mat 102T, MET 102T

Mr. Willis

A study of basic locating and clamping principles and devices, dimensioning, tolerances, etc. Laboratory design of jigs and fixtures. Textbooks: Donaldson and LeCain - Tool Design, McGraw-Hill; Doyle - Tool Engineering, Prentice-Hall.

MET 202T ECONOMICS OF PRODUCTION**(3-3-4)**

Prerequisites: Mat 103T, MET 102T, MET 201T

Mr. Willis

Basic principles of economics applied to production problems. Economic life of machine tools, jig and fixtures; economic lot size, cost determination, estimating, etc. Laboratory projects in machine shop. Textbook: Doyle - Tool Engineering, Prentice-Hall.

MET 203T TOOL AND DIE DESIGN**(2-6-4)**

Prerequisites: MET 103T, MET 201T

Mr. Willis

A practical course in which parts, jigs, fixtures, and dies are designed in actual layout on the drawing board. Emphasis is placed on the fundamental purpose of tool and die design to reduce the cost of the finished commodity, to simplify design, to save materials, and to eliminate unnecessary manufacturing steps. Textbooks: Doyle - Tool Engineering, Prentice-Hall; Donaldson and LeCain - Tool Design, McGraw-Hill.

MET 211T STATICS AND DYNAMICS**(3-3-4)**

Prerequisites: Mat 103T, Phy 101T

Mr. McAteer

Forces, resultants, and equilibrium by analytical and graphical methods; moments and couples; forces in simple structures and trusses; static and kinetic friction; kinetics; force, mass acceleration, and momentum. Textbooks: Jensen and Chenoweth - Applied Engineering Mechanics, McGraw-Hill.

MET 212T STRENGTH OF MATERIALS**(3-3-4)**

Prerequisite: MET 211T

Mr. Keck

Simple stresses; properties of materials, center of gravity, centroids, moments of inertia, shear and moment diagrams, analysis and design of beams and columns, combined stress, torsion. Textbook: Jensen - Applied Strength of Materials, McGraw-Hill.

MET 221T FUNDAMENTALS OF MECHANICAL DESIGN (3-3-4)

Prerequisites: Mat 103T, Phy 102T Mr. Michael

To acquaint the student with the principles of the applied sciences in order that proper components of mechanical design such as power trains, gearing, bearings, shafts, etc., may be used. Textbook: Phelen - Fundamentals of Mechanical Design, McGraw-Hill.

MET 222T MECHANISMS (3-3-4)

Prerequisites: Dra 103T, Mat 103T, MET 211T Mr. Michael

A study of the basic theories and techniques in the analysis of relative motion, acceleration and velocities of machine parts such as linkages, cams, gears, and other mechanisms. Textbooks: Lent - Analysis and Design of Mechanisms, Prentice-Hall; Lent - Problems in Analysis and Design of Mechanisms, Prentice-Hall.

MET 223T MACHINE DESIGN (3-3-4)

Prerequisites: MET 103T, MET 212T, MET 222T Mr. Michael

A study of the design of basic machine elements such as shaft, keys, belts, gears bearings, couplings, and clutches. Textbook: Maleev and Hartman - Machine Design, International Textbook; Lent - Analysis and Design of Mechanisms, Prentice-Hall; Lent - Problems In Analysis and Design of Mechanisms, Prentice-Hall.

MET 233 INDUSTRIAL INSTRUMENTATION (3-3-4)

Prerequisites: EET 221T or EET 281 Mr. Michael

A study of basic principles and instruments for the measurement and control of industrial processes. Laboratory in use and application of electronic, pneumatic, and hydraulic measurement devices to measure temperature, pressure, flow, humidity, etc. Textbook: Fribance - Industrial Instrumentation Fundamentals, McGraw-Hill.

PHYSICS

Mr. Stewart, Mr. Heywood, Mr. Ethridge, Mr. E. White

Phy 101T MECHANICS (3-3-4)

Co-requisite: Mat 101T Mr. E. White

An analytical approach to the principles of mechanics. Subject matter includes physical measurements, vector and scalar quantities, static and dynamic systems of forces, force and motion, rotational motion, work and energy, hydrostatics and hydrodynamics, elastic properties of matter, and simple harmonic motion. Emphasis is placed on problem solving and engineering applications. Lectures, problem drill, and laboratory exercises are coordinated to enable a better understanding of physical principles. Textbook: Smith and Cooper - Elements of Physics, McGraw-Hill.

Phy 102T HEAT, LIGHT, AND SOUND**(3-3-4)**

Prerequisites: Mat 101T, Phy 101T

Mr. Ethridge

An introduction to the principles of heat, light, and sound. Subject matter includes wave motion, sound waves and sound sources, thermal properties of matter, kinetic theory, change of phase, heat transfer, thermodynamics, illumination, reflection and refraction of light, lenses and optical instruments, interference and diffraction of light, polarization of light, spectra and color. Emphasis is placed on problem solving and engineering applications. Laboratory exercises are coordinated with classroom work. Textbook: Smith and Cooper - Elements of Physics, McGraw-Hill.

Phy 103T ELECTRICITY AND MAGNETISM**(3-3-4)**

Prerequisites: Mat 102T, Phy 102T

Mr. Heywood

An introduction to electricity and magnetism. Subject matter includes electrostatics, basic electric circuits, chemical and thermal electromotive forces, electromagnetism, induced electromotive forces, alternating current circuits, and basic electronic circuits. Emphasis is placed on problem solving and engineering applications. Laboratory exercises are coordinated with classroom work. Textbook: Smith and Cooper - Elements of Physics, Mc-Graw-Hill.

Phy 113T MODERN PHYSICS**(3-3-4)**

Prerequisite: Phy 102T

Mr. Stewart

An introduction to atomic and nuclear physics. Subject matter includes atomic structure, thermionic and photoelectric effects, relativity, the vector model of the atom, nuclear spin and molecules, x-ray, x-ray spectra and atomic structure, waves and particles, natural radioactivity, particle accelerators, nuclear structure, fusion and fission. Laboratory exercises and problem solving are used to give emphasis to classroom work. Textbooks: Smith and Cooper - Elements of Physics, McGraw-Hill; Semat and White - Introduction to Atomic Physics, Holt-Rinehart-Winston.

SOCIAL SCIENCE

Mr. Snyder, Mr. Michael

Soc 202T ENGINEERING ECONOMICS**(3-0-3)**

Prerequisite: Mat 103T

Mr. Michael

A general survey of engineering economics, engineering economy studies, factors determining present economy, interest and annuity relationships, depreciation and valuation, financing engineering enterprises, basic economy study patterns, economy studies in public utilities. Textbook: DeGarmo - Engineering Economy, Macmillan.

Soc 203T INTRODUCTION TO PSYCHOLOGY**(3-0-3)**

Prerequisite: Senior standing.

Mr. Snyder

A general study of human behavior, maturation and development, motivation, learning and remembering, feeling and emotion, imagination and thinking, psychological measurement, personality and adjustment, social influences on human behavior. Textbook: Morgan - Introduction to Psychology, McGraw-Hill.

GASTON COLLEGE

TECHNICAL DIVISION



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 Edgar Clyde Alexander
 Andrew Blount Allen
 Randolph Harris Allen
 Ricky Lee Ammons
 Ray Neil Anderson
 Robbie Lee Andrews
 Robert Anthony Arena
 William Glenn Atchley
 William Ernest Atkinson
 Charles Wesley Atkins
 Donald Reed Atkins
 Wayne Morris Aycock
 Daniel Thomas Ayscue
 Jon Robert Babington
 James William Bailey
 Donald Scott Baker
 Donald Lee Barbee
 Hubert Michael Barbee
 Roger Ray Bare
 Barry Gregg Barker
 Richard Scott Barnes
 Luther Bradford Barringer
 Eli Augustus Basinger, Jr.
 William Barnette Batchelor
 Roger Dean Baucom
 James Richard Beamon, Jr.
 Roger Lee Benfield
 Gary Austin Bennett
 Sonny Larry Bentley
 Walter Richard Blake
 Joseph Morris Bland
 Jack Nevins Blanton, Jr.
 David Reid Bobbitt
 Daniel Hugh Bolick
 Keith Adrian Bowers
 Grover Duncan Boyd
 Ernest Morley Boys, Jr.
 John Luther Boyter, Jr.
 Charles William Bradshaw
 Colin Reeves Bradshaw
 Robert Franklin Bradshaw
 Barry Mitchell Briles
 Jackie Darrell Britt
 George Benjamin Brockington
 Darrell Franklin Brooks
 Harvey Francis Brooks
 Phillip Kelly Brooks
 Lennis Roger Brower
 Alfred Charlton Brown, Jr.
 Benjamin Cole Brown

Civil ----- Vale, N. C.
 Electronics ----- Hayes, N. C.
 Civil ----- Plymouth, N. C.
 Civil ----- Rockingham, N. C.
 Mech. & Prod. ----- Salisbury, N. C.
 Electronics ----- Forest City, N. C.
 Electronics ----- New Bern, N. C.
 Electronics ----- Durham, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Winston-Salem, N. C.
 Electronics ----- Winston-Salem, N. C.
 Civil ----- Winston-Salem, N. C.
 Electronics ----- High Point, N. C.
 Mech. & Prod. ----- Henderson, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Electronics ----- Williamston, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Electronics ----- Oakboro, N. C.
 Electronics ----- Winston-Salem, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Raleigh, N. C.
 Civil ----- Richfield, N. C.
 Civil ----- Salisbury, N. C.
 Electronics ----- Sanford, N. C.
 Mech. & Prod. ----- Lowell, N. C.
 Civil ----- North Wilkesboro, N. C.
 Electronics ----- Gastonia, N. C.
 Civil ----- Morganton, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Mech. & Prod. ----- Hendersonville, N. C.
 Electronics ----- Sanford, N. C.
 Mech. & Prod. ----- Boiling Springs, N. C.
 Electrical ----- Littleton, N. C.
 Electronics ----- Hickory, N. C.
 Electronics ----- Thomasville, N. C.
 Electronics ----- Gastonia, N. C.
 Mech. & Prod. ----- Hendersonville, N. C.
 Civil ----- Asheville, N. C.
 Civil ----- Mooresville, N. C.
 Electronics ----- Balboa, Canal Zone
 Electronics ----- Gastonia, N. C.
 Civil ----- Greensboro, N. C.
 Civil ----- Seagrove, N. C.
 Electrical ----- Lancaster, S. C.
 Mech. & Prod. ----- Asheboro, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Electrical ----- Asheboro, N. C.
 Electronics ----- High Point, N. C.
 Electronics ----- Gastonia, N. C.
 Civil ----- Carolina Beach, N. C.

James Norman Brown
 Douglas A. B. Browne
 John Alan Brumbaugh
 Bynum Otto Bryan, Jr
 James Waller Bryan
 Erwin Nelson Bryson
 Arthur Bliss Buddington
 Ronnie Michael Bullard
 Harry Robert Bumgarner
 Bobby Joe Burkett
 Grady Elwood Burchett
 Larry Raymond Burke
 Thomas Allen Burke
 Steve Silas Burris
 Dean Carroll Butner
 Robert Downs Byrd
 James Walter Cagle
 Curtis Randolph Calhoun
 James Butler Call, Jr.
 Richard David Campbell
 Michael Benton Canaday
 John Thomas Carpenter
 Rex Yates Carpenter
 William Steve Carpenter
 Donald Willard Carswell
 James Southerland Carrington
 Joe Hollingsworth Carter, III
 Randy Lee Cates
 Carey Herman Caudell, Jr.
 Larry Hayes Causby
 Lewis Ashburn Cavan, Jr.
 Arthur Preston Cavanaugh, Jr.
 Linward Champion, Jr.
 Joseph Chaney, III
 John Wylie Clark
 Roger Barry Clark
 Ronald Lester Clark
 George Montrose Clemmer
 William Woodrow Clemmons
 Arthur George Clough
 Gerald Wayne Cobb
 Jerry Willis Coble
 Marshall Lee Coble
 James Edgar Collins
 James Preston Cook
 Michael Alan Cooke
 Jimmy Wilson Cooper
 Robert Neil Cooper
 Jesse Vernon Corbett, Jr.
 Lloyd Richard Cox
 Robert Teague Craig
 Joel Guy Crawley
 Buddy Gray Creed
 Richard Stanton Cromlish, Jr.
 Robert M. Cude

Civil ----- McGrady, N. C.
 Mech. & Prod. ----- State Road, N. C.
 Electronics ----- Hartsville, S. C.
 Civil ----- Winston-Salem, N. C.
 Electronics ----- Burlington, N. C.
 Electronics ----- Sylva, N. C.
 Electronics ----- Statesville, N. C.
 Mech. & Prod. ----- Lumberton, N. C.
 Electronics ----- Sylva, N. C.
 Electrical ----- Hildebran, N. C.
 Electronics ----- Greensboro, N. C.
 Electronics ----- Sanford, N. C.
 Mech. & Prod. ----- Charlotte, N. C.
 Civil ----- Lincolnton, N. C.
 Mech. & Prod. --- Winston-Salem, N. C.
 Electronics ----- Whitmire, S. C.
 Electrical ----- Gastonia, N. C.
 Electrical ----- Gastonia, N. C.
 Electronics ----- Wilkesboro, N. C.
 Civil ----- Maiden, N. C.
 Electronics ----- Benson, N. C.
 Civil ----- Shelby, N. C.
 Civil ----- Morganton, N. C.
 Mech. & Prod. ----- Kannapolis, N. C.
 Electronics ----- Dallas, N. C.
 Mech. & Prod. -- North Wilkesboro, N. C.
 Civil ----- Statesville, N. C.
 Electronics ----- Burlington, N. C.
 Mech. & Prod. ----- Wallace, N. C.
 Civil ----- Granite Falls, N. C.
 Electronics ----- Charlotte, N. C.
 Mach. & Prod. ----- Wallace, N. C.
 Electrical ----- Whitmire, S. C.
 Electronics ----- Harwood, Maryland
 Electronics ----- Stanley, N. C.
 Mech. & Prod. ----- Lincolnton, N. C.
 Electronics ----- Bessemer City, N. C.
 Civil ----- Gastonia, N. C.
 Civil ----- Albemarle, N. C.
 Civil ----- Marion, N. C.
 Civil ----- Roxboro, N. C.
 Electronics ----- Burlington, N. C.
 Electronics ----- Oakboro, N. C.
 Mech. & Prod. ----- Cameron, N. C.
 Civil ----- Winston-Salem, N. C.
 Civil ----- Greensboro, N. C.
 Electrical ----- Thomasville, N. C.
 Mech. & Prod. ----- Carthage, N. C.
 Electronics ----- Clayton, N. C.
 Mech. & Prod. ----- Jamestown, N. C.
 Electronics ----- Lincolnton, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Electrical ----- Mount Airy, N. C.
 Civil ----- Belmont, N. C.
 Electrical ----- Greensboro, N. C.

Murray Allen Dalrymple
 Sam Greenlee Davenport
 Emmett Stevenson Davis
 Bruee Dean Dearman
 James Thomas Debord
 Gary Ernest Dellinger
 Jerry Wayne Dellinger
 Keith Sidney Dellinger
 Gilbert Dean Dillard
 George Edward Dixon
 Richard Howard Douthwaite
 Robert Lee Dozier
 Ronald Marvin Drum
 John Dorsett Earle
 John Circero Easter, Jr.
 Tony Allen Ebert
 Phillip Michael Eckard
 John Robert Edwards, Jr.
 Lester Wayne Eller
 Jack Thomas Elmore
 Larry Ward Emory
 John Alvin Eudy, Jr.
 Lonnie Murray Fain
 Michael Franz Falls
 Sidney Underwood Farrar, Jr.
 Wayne El Faulk
 Charles Alden Featherston
 Robert Charles Fincher
 Glenn Darrow Fogleman
 James Hill Foster, III
 Rhodes Herndon Frazier, Jr.
 Ralph Thomas Frazier
 Robert Allan Gantt
 Steven Tony Garland
 Joseph Lee Garner
 Samuel Rufus Gay, III
 Victor Neely Gilbert
 Gary Sears Glenn
 Dennis Nelson Godfrey
 Howard Glenn Godfrey
 James Daniel Goodson
 Marion James Goodson, Jr.
 Jerry Dean Gordon
 Terry Franklin Gordon
 Johnnie Leon Graham
 John Watt Gray, III
 James Junior Graybeal
 James Curtis Grayson
 Sherrill Hershal Greene
 Charles Lynn Green
 James Riley Greeson
 James Daniel Grindle
 Thomas Jefferson Grey
 Thelbert Datis Gupton, Jr.
 George Woodrow Gurley, Jr.

Electrical ----- Roanoke Rapids, N. C.
 Electrical ----- Spruce Pine, N. C.
 Electronics ----- Graham, N. C.
 Civil ----- North Wilkesboro, N. C.
 Civil ----- Troy, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Electronics ----- Cherryville, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Electronics ----- Jefferson, N. C.
 Civil ----- Dallas, N. C.
 Electronics ----- Wilmington, N. C.
 Electronics ----- South Mills, N. C.
 Electronics ----- Maiden, N. C.
 Civil ----- Manteo, N. C.
 Electrical ----- Trinity, N. C.
 Electronics ----- Winston-Salem, N. C.
 Electronics ----- Charlotte, N. C.
 Civil ----- Grimesland, N. C.
 Mech. & Prod. --- Granite Quarry, N. C.
 Civil ----- Crouse, N. C.
 Mech. & Prod. ----- Greensboro, N. C.
 Electronics ----- Gastonia, N. C.
 Mech. & Prod. --- Winston-Salem, N. C.
 Electrical ----- Gastonia, N. C.
 Civil ----- Gastonia, N. C.
 Electronics ----- Mount Olive, N. C.
 Electrical ----- Roxboro, N. C.
 Mech. & Prod. ----- High Point, N. C.
 Civil ----- Durham, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Oxford, N. C.
 Civil ----- North Wilkesboro, N. C.
 Electronics ----- Belmont, N. C.
 Electrical ----- Hartsville, S. C.
 Electronics ----- Newport, N. C.
 Civil ----- Lynchburg, Virginia
 Civil ----- Statesville, N. C.
 Electronics ----- Garner, N. C.
 Mech. & Prod. ----- High Shoals, N. C.
 Electronics ----- Filbert, S. C.
 Civil ----- Lincolnton, N. C.
 Electronics ----- Hartsville, S. C.
 Mech. & Prod. --- Winston-Salem, N. C.
 Mech. & Prod. --- Winston-Salem, N. C.
 Electronics ----- Hartsville, S. C.
 Civil ----- Smithfield, N. C.
 Civil ----- Morganton, N. C.
 Civil ----- Shelby, N. C.
 Civil ----- Morganton, N. C.
 Electronics ----- Gaffney, S. C.
 Civil ----- Greensboro, N. C.
 Electrical ----- Gastonia, N. C.
 Electronics ----- Gaffney, S. C.
 Civil ----- Henderson, N. C.
 Civil ----- Roanoke Rapids, N. C.

Charles Ellis Hall
 Warren Johnson Hall
 Carey Roger Ham
 Worth Alexander Hamilton
 Edwin Harry Hammill
 James Edward Hampton, Jr.
 Denton McKendre Harold, Jr.
 Marvin Ned Harrelson
 Raymond Wayne Harris
 Robert Lowry Harwell
 Parris Kenneth Hastings, Jr.
 Ronnie James Hatchel
 Henry Richard Hatchell
 Roger Dale Hawkins
 James Elvin Hayes
 Charles Gurney Hayworth
 Wayne Lester Hearne
 Richard Thomas Heath, Jr.
 David Elwyn Henderson, Jr.
 Gordon Thomas Henderson, Jr.
 Johnnie Sylvanus Hendrix, Jr.
 Phillip Dwight Hill
 Larry Guy Hobbs
 Donald Wayne Holston
 Marvin Edmund Hood
 Dale Johnson Hoover
 John Hinton Hopkins
 Walter Albert Hord, Jr.
 Williard Clark Houck, Jr.
 Frank Matthew Hough, Jr.
 Donald Maren Howard
 Ray Alden Howell
 David Lee Hubbard
 Harold Troy Humble, Jr.
 Robert Donald Hurlbut
 Quentin Grant Hutchins, Jr.
 Larry Stevens Hyder
 John Allen Ingle
 David Thomas Iseley
 Lamar Gyon Jackson
 Thomas Allan Jacobs
 Robert Edward Jacobs
 Kenneth Eugene Jimison
 Robert Lee Jobe
 Ralph Eugene Johnson, Jr.
 George Denver Jolly, Jr.
 Charles Franklin Jones
 John Malcolm Jones
 Roger Dale Jones
 Daniel Gene Jordan
 James Marvin Joy
 James Nello Kelly, Jr.
 Earl Barrett Kendrick
 Robert Michael Kenley
 Wayne Lester Kennedy

Electrical ----- Hartsville, S. C.
 Electronics ----- Wilmington, N. C.
 Electronics ----- Goldsboro, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Electronics ----- Gold Hill, N. C.
 Civil ----- Gastonia, N. C.
 Electronics ----- Charleston, W. Va.
 Mech. & Prod. ----- Shelby, N. C.
 Electronics ----- Elkins, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Electronics ----- Charlotte, N. C.
 Civil ----- Burlington, N. C.
 Electronics ----- Winston-Salem, N. C.
 Civil ----- Gastonia, N. C.
 Electronics ----- Seagrove, N. C.
 Electronics ----- High Point, N. C.
 Mech. & Prod. ----- Concord, N. C.
 Electronics ----- Kernersville, N. C.
 Electronics ----- Winston-Salem, N. C.
 Mech. & Prod. ----- Marbury, Maryland
 Mech. & Prod. ----- Gastonia, N. C.
 Electrical ----- Youngsville, N. C.
 Electronics ----- Troutman, N. C.
 Mech. & Prod. ----- Tobaccoville, N. C.
 Civil ----- Grifton, N. C.
 Civil ----- High Point, N. C.
 Electronics ----- Charlotte, N. C.
 Electronics ----- Gastonia, N. C.
 Mech. & Prod. ----- Oakboro, N. C.
 Civil ----- Dallas, N. C.
 Mech. & Prod. ----- Cameron, N. C.
 Electronics ----- West Jefferson, N. C.
 Mech. & Prod. ----- Belmont, N. C.
 Civil ----- Liberty, N. C.
 Electronics ----- Kings Mountain, N. C.
 Civil ----- Gastonia, N. C.
 Mech. & Prod. ----- Hendersonville, N. C.
 Civil ----- Charlotte, N. C.
 Civil ----- Mebane, N. C.
 Electronics ----- Belmont, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Winston-Salem, N. C.
 Electronics ----- Charlotte, N. C.
 Mech. & Prod. ----- Greensboro, N. C.
 Electronics ----- Vale, N. C.
 Electronics ----- Gaffney, S. C.
 Electronics ----- Dallas, N. C.
 Electronics ----- Gastonia, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Mech. & Prod. ----- Orangeburg, S. C.
 Electronics ----- Stanley, N. C.
 Mech. & Prod. ----- Sanford, N. C.
 Civil ----- Gastonia, N. C.
 Civil ----- Gastonia, N. C.
 Civil ----- Thomasville, N. C.

Ronald Herman Kerner
 William Rupert King
 Fred Alex Kirkman, Jr.
 James Ralph Kirkpatrick
 Reuben Harrison Knopf, Jr.
 Basil John Komas
 Larry Gilbert Koontz
 William Gaston Kornegay
 Robert Gray Kurfees
 Keith Paul Layel
 Charles Douglas Ledford
 Robert Don Lee, Jr.
 George Ervin Lemons
 Joseph Hand Leonhardt, Jr.
 Thomas Eugene Lewis
 Robert Theodore Lomax
 Harold Rodderick Lovin
 James Nelson Lowe
 Phillip Lee Lunn
 Robert Lee McClure
 William Randall McConnell
 John Reid McCurry
 Charles G. McIntyre
 Ronnie Allen McMahan
 William Thad McMickle, Jr.
 Charles Arnold McSwain
 James Leon Mace
 Ronald George Mackay
 Jimmy MacArthur Mann
 Henry Barnes Marshall
 Jerry Dale Martin
 Charles Frederick Mauney
 Norwood Martin Mayo
 Billy Carter Miller
 Johnny Russell Miller
 David Wayne Mitcham
 James Harry Mitchell
 Malcolm Key Mobley
 Mack Wendell Mobley
 Linwood Brann Montgomery
 James Garney Morrow, Jr.
 Hugh Sharon Motsinger
 William Markwood Moyer
 Willie Eugene Munn
 Richard Everett Nove
 Thomas Erskine Nichols, Jr.
 John Horace Nicholson
 Tommy David Nolen
 William Lee Noles, Jr.
 Noel Rockwell Norman, Jr.
 Michael Cooper O'Connor
 David Corbett O'Keef, Jr.
 Walter Stephan Overcash
 Ronald Allen Pace
 Carl Baxter Panel
 Robert Ancil Pardue
 Jimmy Carter Parham

Mech. & Prod. ----- Albemarle, N. C.
 Civil ----- Wilmington, N. C.
 Civil ----- Kernersville, N. C.
 Civil ----- Burlington, N. C.
 Civil ----- Winston-Salem, N. C.
 Electronics ----- Charlotte, N. C.
 Electronics ----- Lexington, N. C.
 Electrical ----- Jesup, Georgia
 Civil ----- Statesville, N. C.
 Civil ----- Gastonia, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Greensboro, N. C.
 Electronics ----- Winston-Salem, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Electronics ----- Stanley, N. C.
 Civil ----- Statesville, N. C.
 Electronics ----- Rockingham, N. C.
 Mach. & Prod. ----- Gastonia, N. C.
 Electronics ----- Hartsville, S. C.
 Mach. & Prod. ----- Gastonia, N. C.
 Civil ----- Mount Holly, N. C.
 Electronics ----- Lincolnton, N. C.
 Electronics ----- Leland, N. C.
 Mech. & Prod. ----- Cramerton, N. C.
 Mech. & Prod. ----- Dallas, N. C.
 Electronics ----- Shelby, N. C.
 Civil ----- Morganton, N. C.
 Mech. & Prod. ----- Greensboro, N. C.
 Electronics ----- Newport, N. C.
 Electronics ----- Rock Hill, S. C.
 Electrical ----- Gibsonville, N. C.
 Civil ----- Dallas, N. C.
 Civil ----- Vanceboro, N. C.
 Electronics ----- Belmont, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Civil ----- Lincolnton, N. C.
 Mech. & Prod. ----- Morganton, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Civil ----- Gastonia, N. C.
 Civil ----- Semora, N. C.
 Mech. & Prod. ----- Lowell, N. C.
 Electronics ----- Kernersville, N. C.
 Electronics ----- Churchville, N. C.
 Electronics ----- Hartsville, N. C.
 Civil ----- Fairmont, N. C.
 Electronics ----- Chester, S. C.
 Mech. & Prod. ----- Statesville, N. C.
 Electrical ----- Franklin, N. C.
 Civil ----- Salisbury, N. C.
 Mech. & Prod. ----- Asheville, N. C.
 Mech. & Prod. ----- High Point, N. C.
 Mech. & Prod. ----- Charlotte, N. C.
 Mech. & Prod. ----- Salisbury, N. C.
 Electronics ----- Pisgah Forest, N. C.
 Electrical ----- Belmont, N. C.
 Electronics ----- Winston-Salem, N. C.
 Civil ----- Canton, N. C.

Kenneth Wilson Parker
 Harold Alan Pasour
 James Enoch Paxton
 David Lamar Payseur
 Thomas Lee Peeler
 Robert Lee Penley
 Cartos Benjamin Pettigrew
 John Henry Philbeck
 Ronnie Lee Pickler
 Joseph Samuel Pierce, Jr.
 James Calvin Pinnix, Jr.
 Kenneth Nobey Pittman
 Ronald Dale Plyler
 John Ervin Polson, III
 Michael Erastus Poore
 George Michael Pope
 Arther Norman Poultre
 Rodney Lynn Pressley
 Earl Robert Price, Jr.
 William Raphael Price, Jr.
 William David Pridgin, Jr.
 Danny Bryson Pruitt
 Richard Allen Puett
 Victor Greene Pyles, Jr.
 Garland William Queen
 Donnie Eugene Ramsey
 Frederick Emery Ray
 Robert Noble Reaves
 Dwight Larkin Reynolds
 Gary Lane Reynolds
 William Lance Reynolds
 Charles Max Rhyne
 Robert Bruce Rhyne
 James William Rice
 James Andrew Richards
 Raymond Leroy Rierson
 Robert Matthew Riley
 Robert Colman Ring
 Robert Kidd Rivenbark
 Eric Wayne Robertson
 Larry Moore Roberson
 Gerald Paul Robinson
 Charles Stuart Rockett
 David Larry Rogers
 Garland Edward Ross
 Kenneth Norman Rothrock
 Fred Lee Rowe
 Donald Lilton Rupard
 Tony Lincoln Rupard
 Donald Keith Russell
 Johnny Robert Sandidge
 Thomas Allen Schley
 Jeral Lee Sebastian
 James Richard Sharpe, Jr.
 James Therrell Shoaf
 Terrell Martin Shoffner, Jr.
 Richard Allen Stroyer

Electronics ----- Clover, S. C.
 Electronics ----- Dallas, N. C.
 Electrical ----- Belmont, N. C.
 Mach. & Prod. ----- Gastonia, N. C.
 Electronics ----- Salisbury, N. C.
 Electronics ----- Salisbury, N. C.
 Mech. & Prod. ----- Burlington, N. C.
 Mech. & Prod. ----- Dallas, N. C.
 Electrical ----- Salisbury, N. C.
 Civil ----- Wilkesboro, N. C.
 Electronics ----- Jamestown, N. C.
 Electronics ----- State Road, N. C.
 Electronics ----- Monroe, N. C.
 Electronics ----- Hartsville, S. C.
 Electronics ----- Mount Airy, N. C.
 Mech. & Prod. ----- Lincolnton, N. C.
 Electrical ----- Asheville, N. C.
 Mech. & Prod. ----- Hendersonville, N. C.
 Electronics ----- Cramerton, N. C.
 Electronics ----- Hartsville, S. C.
 Electronics ----- Raleigh, N. C.
 Electrical ----- Gastonia, N. C.
 Mech. & Prod. ----- Morganton, N. C.
 Civil ----- Mount Airy, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Dallas N. C.
 Electronics ----- Weaverville, N. C.
 Electronics ----- Goldsboro, N. C.
 Electronics ----- McGrady, N. C.
 Electronics ----- Shelby, N. C.
 Mech. & Prod. ----- Wilkesboro, N. C.
 Mech. & Prod. ----- Belmont, N. C.
 Civil ----- Gastonia, N. C.
 Electrical ----- Gastonia, N. C.
 Electronics ----- Valdese, N. C.
 Civil ----- McLeansville, N. C.
 Electronics ----- Jacksonville, Florida
 Civil ----- Sifoam, N. C.
 Mech. & Prod. ----- Wallace, N. C.
 Mech. & Prod. ----- Kannapolis, N. C.
 Civil ----- Mocksville, N. C.
 Electronics ----- Troutman, N. C.
 Electrical ----- Hickory, N. C.
 Civil ----- Statesville, N. C.
 Civil ----- Morganton, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Electronics ----- Conover, N. C.
 Electronics ----- Yadkinville, N. C.
 Civil ----- Greensboro, N. C.
 Electronics ----- Albemarle, N. C.
 Civil ----- Dallas, N. C.
 Electronics ----- Wilmington, N. C.
 Mech. & Prod. ----- Wilkesboro, N. C.
 Mech. & Prod. ----- Washington, D. C.
 Mech. & Prod. ----- High Point, N. C.
 Mech. & Prod. ----- Charlotte, N. C.
 Electronics ----- Charlotte, N. C.

Vernon Edwin Sigmon
 William Peter Silcox
 Gary Wayne Simmons
 Sidney Shannon Simmons
 Danny Rick Sink
 George Alexander Sloan
 Danny Lee Smith
 Freddie Clifford Smith
 Jerry Lewis Smith
 Jerry Willard Smith
 Kenneth Douglas Smith
 Richard Doug Smith
 Ralph Lester Smith
 James Wharton Snead, Jr.
 Franklin Dee Snore
 Walter Larry Sower
 Phillip Eugene Sprinkler
 Rubert Hal Stanley
 Issac Ray Steelman
 Charles Thomas Stewart
 David Maurice Stewart
 John Alton Stewart
 Ronald Clark Storey
 Thomas Eugene Stroupe
 David Joseph Sullivan
 Donald Raxter Surrence
 Thomas Cleveland Sustek
 Ronald Vernon Swicegood
 Edwin Thomas Sykes
 Hugh Leo Sykes
 Tracy Walter Talley
 Raymond Dennis Tate
 Maford Wilbert Tate
 Stanley Bruce Tate
 Carl David Taylor
 James Joseph Taylor
 Joseph Oscar Taylor, Jr.
 Randolph Graham Taylor
 William Benjamin Taylor, Jr.
 William Earl Taylor
 Larry Frank Teal
 David Edward Thomas
 Stephan Edward Thomas
 Lewis Gray Thompson
 Thomas Franklin Thornton
 Willis Cephue Truesdale, Jr.
 Thomas Willard Turner, Jr.
 Joseph Howard Tuttle, Jr.
 Melvin Arnold Tuttle
 Robert Lewis Tuttle
 Willie Burnett Tuttle
 Robert Clay Tyndall
 Walter Wallace Van Meter
 Barry Loyd Varner
 Garry Brent Wagoner
 Wade Douglas Wagoner

Mech. & Prod. ----- Mount Holly, N. C.
 Civil ----- Greensboro, N. C.
 Mech. & Prod. ----- Morganton, N. C.
 Mech. & Prod. ----- Morganton, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Civil ----- Wilmington, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Belmont, N. C.
 Electronics ----- Gastonia, N. C.
 Civil ----- Winston-Salem, N. C.
 Electronics ----- Bristol, Virginia
 Civil ----- Gastonia, N. C.
 Electronics ----- Belmont, N. C.
 Electronics ----- Williamston, N. C.
 Electronics ----- Mount Airy, N. C.
 Mech. & Prod. ----- Lewisville, N. C.
 Electronics ----- Winston-Salem, N. C.
 Electronics ----- Calypso, N. C.
 Mech. & Prod. ----- Burlington, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Civil ----- Kings Mountain, N. C.
 Electronics ----- Salisbury, N. C.
 Civil ----- Salisbury, N. C.
 Electrical ----- Thomasville, N. C.
 Electronics ----- Pisgah Forest, N. C.
 Electronics ----- Grifton, N. C.
 Electronics ----- Lexington, N. C.
 Electrical ----- Yanceyville, N. C.
 Mech. & Prod. ----- Mooresville, N. C.
 Electronics ----- Concord, N. C.
 Electronics ----- Mooresville, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Electronics ----- Lenoir, N. C.
 Mech. & Prod. ----- Hendersonville, N. C.
 Mech. & Prod. ----- Hendersonville, N. C.
 Electronics ----- Rock Hill, S. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Electronics ----- Raleigh, N. C.
 Civil ----- Greensboro, N. C.
 Mech. & Prod. ----- Kannapolis, N. C.
 Electronics ----- Weaverville, N. C.
 Civil ----- Clover, S. C.
 Civil ----- Burlington, N. C.
 Civil ----- Burlington, N. C.
 Electrical ----- Marion, N. C.
 Mech. & Prod. ----- Gastonia, N. C.
 Mech. & Prod. ----- Greensboro, N. C.
 Civil ----- Germanton, N. C.
 Electronics ----- Winston-Salem, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Electronics ----- Kinston, N. C.
 Civil ----- Wilkesboro, N. C.
 Electrical ----- Lexington, N. C.
 Electronics ----- Hamptonville, N. C.
 Electronics ----- Elon College, N. C.

Garry Lane Waldrop
 Vestal Dan Walker
 Daniel Thomas Wallace
 Richard Caswell Wallace
 Tommy Lee Wallace
 Willie Bruce Walton
 Francis Eugene Warren
 James Durwood Warren
 Lucius Hamilton Warren, Jr.
 Charles Calvin Watson
 Philip Allen Watson
 Roger Ted Watson
 Charles Gordon Weant
 Dallas Marquin Weir, Jr.
 John Dallas Welch
 Hill Dan Weldon
 David Truman Wells
 James Douglas Whaley, Jr.
 Melvin Franklin Whicker
 Ernest Walker White, Jr.
 Marion Larry Wiggins
 David Eaton Wilcox
 Michael Armand Wilhelm
 Roger Dale Williams
 Ronald Howard Williams
 Larry Frank Willis
 William Edward Wilson
 Thomas Perry Winslow
 William Keith Wiseman
 Joel Everette Wood
 Gary Lynn Worrell
 Alan Jackson Wray
 Dennis Wayne Wright
 Wallace Lavern Wright
 Charles Odell Yates
 George Richard Zaytoun

Mech. & Prod. ----- Gastonia, N. C.
 Electronics ----- Gastonia, N. C.
 Mech. & Prod. ----- Shelby, N. C.
 Civil ----- Morganton, N. C.
 Electronics ----- Charlotte, N. C.
 Electronics ----- Shelby, N. C.
 Mech. & Prod. ----- Lowell, N. C.
 Civil ----- North Wilkesboro, N. C.
 Electronics ----- Belmont, N. C.
 Electrical ----- Gastonia, N. C.
 Electronics ----- Columbia, S. C.
 Civil ----- Burlington, N. C.
 Electronics ----- Lexington, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Civil ----- Cherokee, N. C.
 Mech. & Prod. ----- Louisburg, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Durham, N. C.
 Mech. & Prod. ----- Tobaccoville, N. C.
 Electrical ----- Hartsville, S. C.
 Electronics ----- Louisburg, N. C.
 Mech. & Prod. ----- Silver Spring, Md.
 Civil ----- Hildebrand, N. C.
 Electronics ----- Gastonia, N. C.
 Electronics ----- Georgetown, S. C.
 Electronics ----- Gastonia, N. C.
 Civil ----- Pineville, N. C.
 Electronics ----- Troutman, N. C.
 Civil ----- Statesville, N. C.
 Civil ----- Filbert, S. C.
 Mech. & Prod. ----- Pfafftown, N. C.
 Mech. & Prod. ----- Waxhaw, N. C.
 Electronics ----- Cherryville, N. C.
 Mech. & Prod. ----- Winston-Salem, N. C.
 Electronics ----- Gastonia, N. C.
 Civil ----- New Bern, N. C.

HELPFUL HINTS

CAMPUS: Gaston College continues to operate on more than one campus. The main campus is located at Dallas, N. C. approximately three miles north of Gastonia on U.S. 321. The college transfer programs and the business education programs are presently offered on the Dallas campus.

Until the technical-vocational building complex is completed in late 1966, the Technical and Vocational Divisions will continue to operate in the facilities of the former Gaston Technical Institute at 1025 West Franklin Avenue near downtown Gastonia.

LOCATION: Gastonia is located about twenty miles west of Charlotte, N. C. To reach Gastonia:

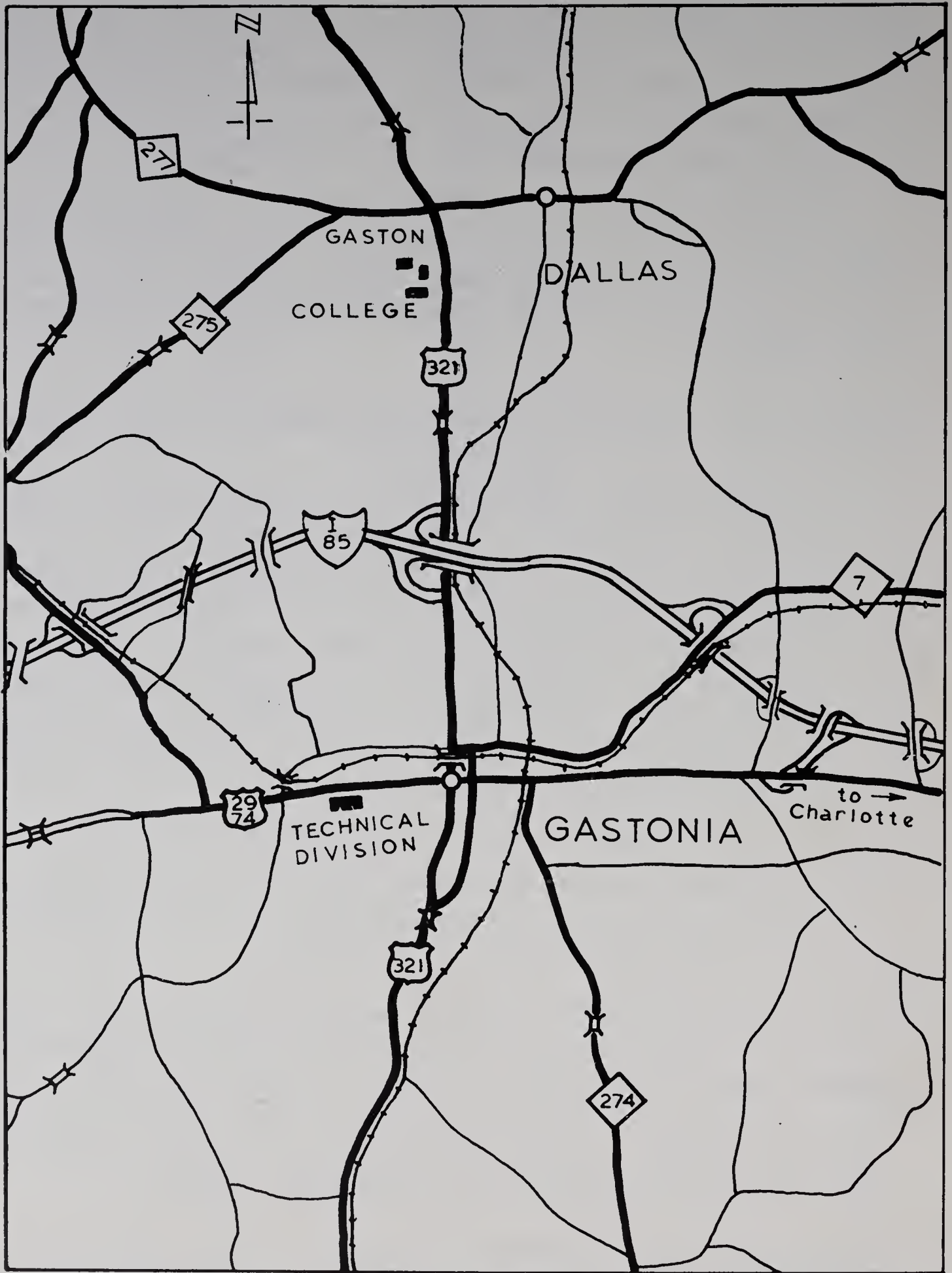
BY AUTOMOBILE: By U.S. 321, U.S. 29, U.S. 74, or Interstate 85. If approach is by I-85 take the exit for U.S. 321. The Dallas campus is located approximately two miles north of this exit on U.S. 321. Downtown Gastonia is located approximately one mile south of this exit on U.S. 321. To reach the Technical Division campus, proceed on U.S. 321 to the intersection with U.S. 29/74, then proceed west on U. S. 29/74 (Franklin Avenue) for approximately twelve blocks.

BY BUS OR TRAIN: Service to downtown Gastonia.

BY PLANE: Douglas Municipal Airport is located approximately half way between Gastonia and Charlotte with bus or limousine service to Gastonia.

SCHOOL CLOTHING: Students generally dress informally, although most need a suit for special occasions. Many choose slacks, sport shirts, warm jackets or sport coats. Each student, regardless of what he chooses to wear, needs additional clothing suitable for shop and labs. For social events, the usual custom is for dark suit, dress shirt, and tie.

STUDENT AUTOMOBILES: Gaston College students are permitted to keep cars on campus as long as they operate them safely, courteously, and moderately. Parking space is at a minimum, and students are advised to "pool" wherever possible.



GASTONIA & VICINITY



Points of Interest

1. Technical Division Campus
2. Y. M. C. A.

Gastonia, North Carolina

3. Bus Station
4. R. R. Station

